



Annual Report
of the
Supplies of Water available for
Irrigation Works and of the
Discharge from Catchment Areas
in the Bombay Presidency

For the Year 1925



[Price—Rs. 8 As. 3 or 14s.]



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In paragraph 11 of a note dated 20th June 1906 the Inspector General of Irrigation required the following information regarding projects to be given :—

- (a) Names and location of projects.
- (b) Position and date of institution of existing river gauges for each project.
- (c) Position of additional river gauges which it is now considered expedient to institute.
- (d) Present procedure as to the observation of river discharges in case of rivers now gauged for new projects and that which is proposed in future with regard to these and others on which it may be considered expedient to establish gauges.

In paragraph 12 of the same note the following were required :—

(i) An index map to the scale of 8 miles to one inch in folded mounted sheets of convenient size, with the location of hills indicated by shading and showing as far as possible the following particulars with regard to each project :—

- (a) Serial number.
- (b) Configuration of catchment area where determined, otherwise the location to be indicated.
- (c) Position of all existing rainfall stations : these to be indicated in a distinctive manner.
- (d) Position of all proposed additional rainfall stations : these to be also shown in a distinctive manner and differently from (c) *supra*.
- (e) Alignments of existing canals.
- (f) Alignments of proposed canals in cases in which determined, and in which the length exceeds 10 miles.
- (g) Location of existing river gauges which concern new projects, and sites proposed for additional gauges for the larger projects.
- (h) Drainage features of the country, town and village sites and other topographical features usually shown on maps of this scale.

(ii) A tabular statement of projects giving the following information :—

- (a) Serial number as on the index map.
- (b) Name of projects.
- (c) Catchment area in square miles when determined.
- (d) Number of rainfall stations within the catchment area.
- (e) Additional number of rainfall stations proposed within the catchment area.
- (f) Frequency of river discharge observations in the past.
- (g) Proposed frequency of river discharge observations in future.
- (h) Remarks.

(iii) A report showing that the proposed arrangements will be adequate.

STATEMENT I.

POSITION OF RIVER GAUGES IN SIND.

Report as per paragraph 11 of the Note, dated 20th June 1906, by the Inspector-General of Irrigation.

(11a).—The requisite information is given in the accompanying map of Sind.

(11b).—The following are the permanent river gauges fixed on the Indus for recording the heights at high and low water seasons :—

Position of the Indus River gauges.	Date of institution.	Projects for which gauges will be useful.	Remarks.
1. A gauge about 1,000 feet below the Desert Canal mouth on the Right Bank.	1903	(1) Proposed Khelat Canal.	
2. A gauge opposite the Desert Canal on the Left Bank.	1909		
3. A gauge between the Desert Canal and the Unharwah situated opposite mile 34/8 of the Kasmor Bund on the Right Bank.	1909		
4. A gauge at the mouth of the Unharwah on the Right Bank.	1908	Gauges from 1 to 8 are useful for raising Right Bank Bunds above Sukkur and Left Bank Protective Bund above Rohri.	
5. A gauge at the new mouth of the Begari Canal (Right Bank).	1913		
6. A gauge at the mouth of the new feeder to the Sind Canal on the Right Bank.	1909		
7. A gauge about 800 feet above the mouth of the Rajib Canal on the Right Bank.	1908		
8. Bukkur gauge on the Bukkur Island situated in the Indus opposite Sukkur.	1848	Gauges from 8 to 11 are useful for— (1) Lloyd Barrage. (2) Right Bank Canal. (3) Eastern Nara Canal. (4) Rohri-Hyderabad Canal.	
*9. Sadh Belo gauge on the Sadh Belo Island situated about 1 mile below the Bukkur Island in the Indus.	1898		*The name Sadh Belo has been adopted from the year 1922 as it is the correct name of the island on which the gauge is fixed.
10. Outfall gauge in the Bunder wall at Sukkur about 3,042 feet below Gao Ghat gauge on the Right Bank.	1903		
11. Bhagotoro gauge about a mile and a quarter above Laki Railway Station at the mouth of the Aralwah on the Right Bank.	1907		
12. A gauge 1,000 feet above Jamshora Head Regulator over the Fuleli Canal and about 4th mile from the river on the Left Bank.	1904	Improvements of Fuleli Canal.	
13. Kotri gauge at Kotri opposite Sub-divisional Office, Indus River Commission, on the Right Bank.	1868	(1) Kotri Barrage. (2) Improvements of Fuleli Canal. (3) Eastern Delta Canal.	
14. Mehrani gauge about 7½ miles below Kotri on the Left Bank.	1904.		
15. Naro gauge about 13 miles below Kotri on the Left Bank.	1904.		
*16. Hajipur gauge about 2½ miles below Naro gauge on the Left Bank.	1904.		
17. Hassanali gauge at the mouth of the Hassanali Canal on the Left Bank.	1904.		
18. Jerruck gauge about 30 miles below Kotri on the Right Bank.	1900	(1) Jerruck Barrage. (2) Baghar re-modelling.	
19. Uchito gauge at the mouth of the Gharowah on the Right Bank of the Uchito River.	1900	Tidal gauge.	
20. Chowgazo gauge at the mouth of the Chowgazowah on the Left Bank of the Halderi River.	1900	Do.	

(11c).—Nil.

(11d).—Discharges of the Indus were observed at Mithankot, Sukkur and Kotri and a comparison of the gauging at Sukkur and Mithankot

STATEMENT I—*contd.*

below the junction of the Chenab with the Indus gives the following results :—

Name of gauging station.	Average daily discharge in each month.					
	May 1925.	June 1925.	July 1925.	August 1925.	September 1925.	October 1925.
(1) Mithankot below the junction of the Chenab with the Indus.	Cusecs. 111,888	Cusecs. *	Cusecs. *	Cusecs. *	Cusecs. 189,429	Cusecs. 75,490
(2) Sukkur	87,439	239,400	425,280	467,086	191,210	69,703
Difference	24,249	—	—	—	-4,781	5,787

Name of gauging station.	Average daily discharge in each month— <i>contd.</i>					
	November 1925.	December 1925.	January 1926.	February 1926.	March 1926.	April 1926.
(1) Mithankot below the junction of the Chenab with the Indus.	Cusecs. 48,888	Cusecs. 34,367	Cusecs. 31,170	Cusecs. 29,535	Cusecs. 40,129	Cusecs. 59,550
(2) Sukkur	53,637	41,032	34,827	30,877	39,722	55,244
Difference	-4,749	-6,665	-3,657	-1,342	407	4,306

* Observations not taken.

Discharges at Mithankot, Sukkur and Kotri were measured daily and silt and velocity observations were taken twice a week. Before 1925 the only meter used for discharge purposes was Haskell's current meter type 'B'. Gurley meters were introduced in the cold weather of 1925 as they give more reliable results than Haskell for velocities lower than 1.6 feet per second. Velocities observed at 6/10th of the depth at each station have been taken as the mean velocity of discharge.

Discharges at Ghazi Ghat and Panjnad which were recorded by the Government of the Punjab, were as under :—

Name of gauging station.	Average daily discharge in each month.					
	May 1925.	June 1925.	July 1925.	August 1925.	September 1925.	October 1925.
Ghazi Ghat (Dera Ghazi Khan) ..	Cusecs. 61,429	Cusecs. 140,369	Cusecs. 140,987	Cusecs. 123,474	Cusecs. 74,482	Cusecs. 51,620
Panjnad	39,066	93,640	177,205	278,395	70,046	21,543

Name of gauging station.	Average daily discharge in each month— <i>contd.</i>					
	November 1925.	December 1925.	January 1926.	February 1926.	March 1926.	April 1926.
Ghazi Ghat (Dera Ghazi Khan)...	Cusecs. 40,740	Cusecs. 30,362	Cusecs. 24,802	Cusecs. 22,182	Cusecs. 31,164	Cusecs. 44,600
Panjnad	13,240	8,763	7,498	6,082	16,009	22,698

STATEMENT II.

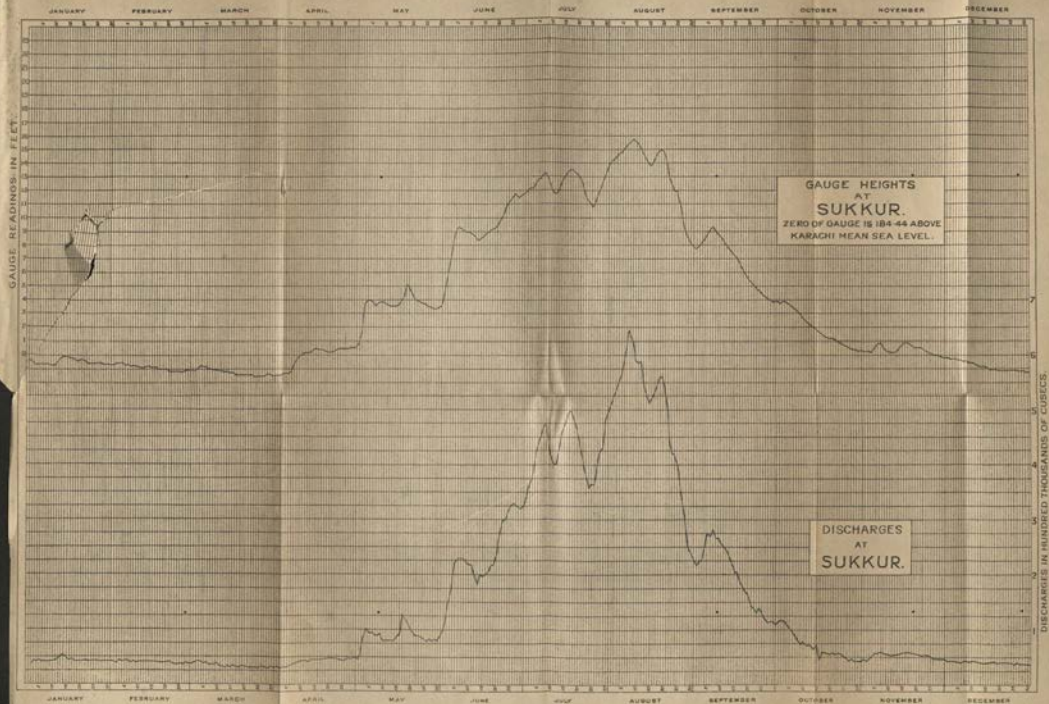
SIND.

Statement of Gauges at Head Regulators of Canals.

Gauges at the Head Regulators of Canals.			Date of institution.	Projects for which useful.
1.	Desert Canal	.. ..	1877	.. Proposed Khelat Canal.
2.	Unharwah	.. ..	1885	.. Right River Embankment above Sukkur.
3.	Begari	.. ..	1870	.. (1) Right River Embankment above Sukkur. (2) Begari Canal.
4.	Sind Canal	.. ..	1808	.. Right River Embankment above Sukkur.
5.	Sukkur Canal (Rahuja Head).	..	1875	.. (1) Right Bank Canal from Sukkur. (2) Lloyd Barrage.
6.	Nara, Upper	.. ..	1862	.. (1) Left Bank and Eastern Nara System of Canals. (2) Lloyd Barrage.
7.	Ghar	.. ..	1879	.. (1) Right Bank Canal from Sukkur. (2) Right River Embankment below Sukkur.
8.	Western Nara, Akil Mouth	..	1904	.. (1) Right Bank Canal from Sukkur. (2) Right River Embankment below Sukkur.
9.	Pritchard	.. ..	1890	.. (1) Right Bank Canal from Sukkur. (2) Right River Embankment below Sukkur.
10.	Pinyari	.. ..	1882	.. (1) Kotri Barrage. (2) Eastern Delta Canal. (3) Left River Embankment below Kotri.
11.	Katli	.. ..	1805	.. (1) Right Bank Canal below Kotri Barrage. (2) Right River Embankment below Kotri.
12.	Baghar	.. ..	1868	.. (1) Right Bank Canal below Kotri Barrage. (2) Right River Embankment below Kotri. (3) Baghar Canal.
13.	Fuleli Canal, Jamshora	..	1839	.. (1) Kotri Barrage. (2) Fuleli Canal. (3) Left River Embankment.
14.	Dad	.. ..	1897	.. Left River Embankment below Sukkur.
15.	Sehar	.. ..	1901	.. (1) Sehar Canal. (2) Left River Embankment.
16.	Mahi	.. ..	1901	.. (1) Mahi Canal. (2) Left River Embankment.
17.	Masu	.. ..	1898	.. (1) Ghotki Canal.
	Maharo	.. ..	1898	.. (2) Left River Embankment.

RIVER INDUS.

1925.



STATEMENT III.

Table showing Projects in Gujarat with the particulars called for in paragraph 11 of the Note, dated 20th June 1906, by the Inspector-General of Irrigation.

FOR WORKS WITHOUT STORAGE.

Serial No.	Project.		River Gauge.		
	Name.	Location.	Position.	Date of erection.	Present procedure of observing river discharges.
			GUJARAT.		
1	Dharol Reservoir Project and Sabarmati Canal Project.	Mahl Kantha Agency and parts of Baroda territory.	At Hadol about a mile eastwards on the Sabarmati River.	1904-05	In rainy season the rivers are gauged twice a day and for the rest of the year once a day, except the rivers Meshwa, Watrak and Mohor, which are gauged weekly when the discharge is reduced to 15 cusecs.
2	Sabarmati Canal Project.	Daskrol, Sanand and Dholka Talukas of the Ahmedabad District.	At Dudheshwar, $\frac{1}{2}$ mile downstream of Railway Bridge on the Sabarmati River.	1901.	
3	Mahl Canal Project.	Thasra, Anand, Nadiad and Matar Talukas of Kaira District and part of Baroda territory.	At Pall about a mile upstream of the Railway Bridge on the Anand-Godhra Line on the Mahl River.	27th August 1904.	Gauge readings are taken during flood and the surface velocities observed by means of floats; soundings are taken in addition when the river stream is low.
4	Do. ..	Do. ..	At Railway bridge near Lunawada on Panam River, vide remark for Serial No. 9 of Statement V.	14th September 1907.	
5	Meshwa Canal Project.	Mehmedabad and Matar Talukas.	At Harsol on Meshwa River.	1905.	
6	(On Mohor River.)	For project that may be contemplated in future.	Near Kapadvanj on Dakor-Kapadvanj Road Bridge on Mohor River.	1907.	The gauge readings on the rivers Tapti and Narbada are taken for 7 months only (1st November to 31st May) and the river discharges calculated, the surface velocity being observed by means of bottle floats.
7	(Watrak River.)	Do. ..	Near Ratanpur on Watrak River.	1907.	
8	Tapti River ..	....	At Dholan Pardi.	25th April 1901.	
9	Narbada River..	....	Gurdeshwar ..	19th November 1905.	

STATEMENT IV.

STATEMENT

Tabular Statement of Projects giving the information required by General

STORAGE WORKS

Serial Number as per Index Map. <i>a</i>	Name of Project. <i>b</i>	Catchment area in square miles where determined. <i>c</i>	Number of rainfall stations within the catchment area. <i>d</i>
			GUJARAT.
17	Hafimati Reservoir Project	224	Nil ..
18	Sabarmati Canal and Dharoi Reservoir Project.	8,400	6 ..
19	Mahi Canal Project (Panam River)	11,840	{ 3 in British Territory .. } { 7 in Native States .. }
20	Khari Reservoir Project	310	2 ..
			DECCAN.
1	Nasik Left Bank Canal, Gangapur Tank ..	146	3 at Trimbak, Vaghra and Girnara.
2	Godavari Canals (Darna Storage)— Unanda Storage at Wajarkhed	68	2 at Achala Fort and Wajarkhed.
	Kadva Storage at Karanjawan	96	2 at Charosa and Kosimba.
	Aundh Storage at Mukhne	52	1 at Kusegaon ..
3	Darna Right Bank Canal— Karwa Storage at Pimpalgaon	67	2 at Indori and Taki B ..
4	Pravara River Project	47	2 ..
5	Mula Right Bank Canal— Mula Storage at Chas	171	4 at Harischandragad Pachnai, Kotul and Chas.
	Mula Storage at Mandvi	538	As above ..
	Mula River at Rahuri (no storage proposed) ..	852	Do. ..
6	Kukari Left Bank Canal— Kukari Storage at Pimpalwandi and Ghod Storage.	288	4 at Junnar, Pur, Malsej and Utur.
7	Mina Canals— Mina Storage at Wadgaon	65	2 at Shewali and Dhamankhed.
8	Ghod Right Bank Canal— Ghod Storage at Nirgudsar	284	4 at Ghod, Asane, Manchar and Anpa.
9	Bhima Canals— Bhima Storage at Kaman	140	3 at Bhimashanker, Wade and Kaman.
10	Mutha Canal Extension Project— Lake Fife	106	4 Musa, Garli, Mutha and Yegra.
11	Nira Right Bank Canal— Yelwandi (raised) Storage at Bhatghar ..	128	3 at Bhatghar, Bhordi and Rajgad.
	Nira Storage at Vir	635	5 at Nigurghar, Shirgaon, Margasni, Torna Fort and Khed Shivapur.

IV.

paragraph 12 (ii) of the note, dated 20th June 1906, by the Inspector of Irrigation.

AS PROPOSED.

Additional Number of rainfall stations proposed in the catchment area. <i>e</i>	Frequency of river discharge observations in the past. <i>f</i>	Frequency of river discharge observations in the future. <i>g</i>	Remarks. <i>h</i>
<i>Nil</i>	Gauged over the weir daily since 1886.	Daily	Observations have been taken since the construction of the weir in 1873-74.
<i>Do.</i>	Gauged daily since 1901	Daily since 1904.	
<i>Do.</i>	Gauged daily since 1904	<i>Do.</i>	
<i>Do</i>	Gauged daily since 1893	Daily	Observations are being taken daily in monsoon and weekly at other times since 1893.
<i>Nil</i>	Twice a day, 1st June to 31st December.	Same as in column <i>f</i> .	
<i>Do.</i>	1st June to 31st December	<i>Do.</i>	Completed. These are all in connection with increased supply to the Godavari Valley system in Nasik.
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	
<i>Do.</i>	<i>Nil</i>	<i>Do.</i>	Under construction.
<i>Do.</i>	<i>Do.</i>	<i>Nil.</i>	
<i>Do.</i>	Whole year	Same as in column <i>f</i> .	The river gauge is at Tas not far below Mandvi. This is the continuation of an old gauge and is useful if the proposal of a weir above Rahuri should be revived.
<i>Do.</i>	1st June to 31st December.	<i>Do.</i>	
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	Some of this water may be given to the Kukari Left Bank Canal.
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	<i>Do.</i> <i>do.</i>
<i>Do.</i>	<i>Do.</i>	<i>Do.</i>	
<i>Do.</i>	Whole year over 30	years available.	
<i>Do.</i>	Whole year	Same as in column <i>f</i> .	Under construction.
....	<i>Do.</i>	<i>Do.</i>	

STATEMENT

Serial Number as per Index Map. <i>a</i>	Name of Project. <i>b</i>	Catchment area in square miles where determined. <i>c</i>	Number of rainfall stations within the catchment area. <i>d</i>
			DECCAN— <i>conold.</i>
12	Krishna Extension Project at Kamargaon ..	346	13, viz., at Malcolmapeth, Panchgani, Dhorn, Wai, Sonar, Medha, Bomnoli, Kas, Satara, Rewadi, Koregaon, Helwak and Patna.
13	Gokak Extension Project (Ghataprabha Project)	1,080	15, viz., Ajra, Hukeri, Gadhinglaj, Chandgad, Tambulwadi, Punara, Amboli, Hattargi, Benalli, Lankeshwar, Gausa, Waghotra, Rajgoli, Adkur and Patna.
14	Ghataprabha Right Bank Canal ..	410	8, viz., Amboli, Punara, Adkur, Waghotra, Chandgad, Patna, Rajgoli and Tambulwadi.
	Harankashi Storage at Ajra ..	94	2 at Ajra and Gausa ..
	Ghataprabha Storage at Hadlag ..	134	3 at Amboli, Punara and Adkur.
	Tamraparni Storage at Rajgoli ..	206	5 at Waghotra, Patna, Chandgad, Rajgoli and Tambulwadi.
15	Malaprabha Project— Malaprabha Storage at Asoga ..	116	2 at Kankumbi and Jamboti
	Malaprabha Storage near Khanapur ..	179	1 at Khanapur ..
16	Wardha Project unknown ..	....	....
21	Madag Canal Right Bank Extension ..	540	In the catchment area of the Tank. 1 at Kalemant.
2	Girna ..	1,826	....

IV—concl'd.

Additional number of rainfall stations proposed in the catchment area. <i>c</i>	Frequency of river discharge observations in the past. <i>f</i>	Frequency of river discharge observations in the future. <i>g</i>	Remarks. <i>h</i>
Nil	1st June to 31st December.	Same as in column <i>f</i> .	
Do.	Throughout the year	....	
Do.	1st June to 31st December.	....	
Do.	Do.	Same.	
Do.	Do.	Do.	The Ghataprabha storage at Daddi combines these two in one, and although the catchment area is increased to 410 square miles, the river discharge would be about the same as the sum of these.
Do.	Do.	Do.	
Do.	....	1st June to 31st December.	
Do.	....	Whole year	At dam site.
Do.	....	....	Below junction of river near Khanaput.
Do.	....	....	Gauging started in July 1908.
Do.	Discharge of the river near Bellur was taken once a day from 1870 to 1893 and then discontinued. The discharge of the waste weir of the existing small tank has been taken once a day whenever it overflowed from 1893.	Discharge to be taken once a day.	Reasons why more rain gauges are not proposed are that the waste weir overflows continuously with an average flood depth of 5 feet for about 4 months in the year, and the discharge is measured.
....	Daily since 1871, with the exception of 4 years of incomplete record.	Daily at Jamda Weir.	Storage at Panjhan, 1,826 square miles catchment. River gauging at Jamda Weir, 2,380 square miles catchment, but the addition is not Ghat catchment.

STATEMENT

Abstract Statement of yearly Discharges of

Serial No.	Project Number as per map.	Name of river and site.	Catchment area above site.	1906.	1907.
			Sq. miles.	M. c. ft.	M. c. ft.
					GUJARAT
1	18	Sabarmati near Hadel ..	3,400	5,758	22,363
2	18	Sabarmati near Dudheshwar ..	4,282	..	27,455
3	17	Hathmati near Himatnagar (Ahmednagar, Idar).	524	5,700	11,241
4	20	Khari near Raipur ..	310	..	(3,065-1,104)* =1,871
5	..	Meshwa near Harol ..	422	1,850	6,906
6	..	Watrak River near Ratanpur ..	611	..	..
7	..	Mohor River near road-bridge over Naulad-Kapadvanj Road.	225	..	..
8	19	Mahl near Pall ..	11,840	257,903	291,866
9	..	Panam at Railway bridge near Lunawada.	977	..	..
				CENTRAL	INDIA
10	..	Narbada at Gurdeshwar ..	42,350	29,271	13,632

Note.—The observations made pertain References to the signs * etc., which are not given on the

V.

Rivers in the Deccan and Gujarat.

1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
CATCH	MENT.								
120,212	40,482	65,674	3,546	20,087	25,729	18,604	3,848	42,157	40,622
208,176	49,826	51,504	7,557	25,781	37,582	28,415	9,949	44,401	76,754
79,752	28,981	6,989	2,723	4,678	8,444	4,662	1,008	14,267	16,908
4,104†	3,150	2,890	634	2,635†	1,524	4,070	984	752	3,908
9,766	10,979	7,442	623	11,942	11,358	18,270	754	3,598	5,062
5,315	5,503	6,167	1,017	5,800	16,379	40,304†	1,698	4,491	11,518
995	2,016	2,072	NW.	815	2,016	2,203	407	1,421	4,987
224,105	369,970	453,239	38,159	335,684	645,046	237,110	42,974	641,154	801,221
42,400	14,104	31,520	2,037	45,669	139,053†	16,337	7,833	17,417	41,577
CATCH	MENT.								
..	286,527	99,713	154,243	133,803	79,449	66,861	41,265	29,032	94,676

to the period 1st May to 30th April following.

same page will be found in the remarks column of the statement. † Doubtful.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	Catchment area above site.	1906.	1907.
			Sq. miles.	M. c. ft.	M. c. ft.
11	..	Arunawati at Karwand ..	250	DECCAN 3,042	(DECCAN 841
12	..	Tapti at Dholan Pardi ..	26,015	CENTRAL 8,602	INDIA 4,944
13	..	Aner at Ganpur ..	502	DECCAN 16,592	(GHAT 2,099
14	..	Tapti at Kathera ..	12,371	CENTRAL	INDIA
15	..	Kan at Khandbara ..	34	DECCAN 834	(DECCAN 1,710
16	..	Waghur at Raipur ..	700	17,894	8,419
17	..	Panjra at Pankheda ..	52	DECCAN	(GHAT 2,303
18	..	Panjra near Nyhalod ..	802	..	15,204
19	..	Panjra near Dhulla ..	714	..	14,952
20	..	Bori at Purmapada ..	117	DECCAN 1,758	(DECCAN 856
21	..	Masom at Sangameshwar ..	332	DECCAN	(GHAT 8,929
22	..	Girna at Thengoda ..	413	..	..
23	23	Girna at Jamda ..	2,389	32,114	16,918
24	23	Girna at Rahipuri ..	2,389	..	..
25	..	Manad at dam site (Saygaon) ..	342	DECCAN 3,321	(DECCAN 289
26	2	Unanda at Wazerkhed ..	68	DECCAN 2,010	(GHAT 3,167
27	2	Kadwa at Karanjwan ..	96	4,668	10,011
28	..	Odal at Khadakoath ..	38	DECCAN 1,169	(DECCAN 651
29	2	Kadwa at Palkhed ..	314	DECCAN 11,691	(GHAT 36,388
30	1 & 2	Godavari at Gangapur ..	145	5,531	14,590
31	2	Godavari at Nandur-Madhmeshwar.	1,050	63,709	106,455

* Discharges observed not reliable.

V—contd.

1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
CATCH 582	MENT. 2,079	7,000	242	522	4,958	19,732	925	3,504	206‡
CATCH 80,054	MENT. 1,095	29,554	22,276	13,386	14,730	11,631‡	14,570	5,980	97,994
CATCH 4,567	MENT. 62,464	4,320	1,155	4,785	20,981‡	17,458	9,552‡	16,066	12,599
CATCH 109,415	MENT. 1,167	236,088	62,858	79,928	208,535	189,114	101,927	233,767	219,103
CATCH 2,071	MENT. 5,344	2,405	668	1,750	2,377	2,379	1,113	1,183	4,486‡
CATCH 6,881	MENT. 2,035	3,479	664	2,153	4,319	8,293	4,070	7,371	6,459
CATCH 2,405	MENT. 2,035	2,820	861	4,322	2,407	6,848	2,626	5,143	5,102
24,178	36,491	39,300	1,549	30,053	×	21,443	6,024	8,019	7,670
21,526	27,270	31,800	1,852	19,234	×	10,352	3,902	6,729	14,720
CATCH 731	MENT. 1,392	5,697	903	2,070	×	2,875	1,512	24,605‡	4,190
CATCH 5,500	MENT. 8,952	8,710	3,310	6,771	2,343	15,290	14,832	18,970	21,974
..	14,436	11,576	12,190	0,888	20,865	35,470	13,703	14,428	24,154
32,421	22,943	42,076	8,745	39,089	34,160	44,717	17,847	×	30,863
CATCH 582	MENT. 1,788	..	..	..	..	..	..	..	28,166
CATCH 2,014	MENT. 3,864	2,404	1,567	3,025	2,925	5,642	3,726	8,883	2,630
8,359	10,437	4,944	1,000	2,979	3,227	17,719	3,154	2,257	3,554
CATCH 302	MENT. 1,474	7,536	3,671	0,662	14,462‡	24,682	7,471	8,025	7,683
CATCH 20,214	MENT. 15,085	2,179	1,011	1,615	732	5,043	4,378	6,116	1,000
		19,091	12,173	37,186	26,229	62,888	28,591	22,949	36,908
9,893	10,234	7,918	5,394	17,432	21,879	22,389	12,635	12,299	14,768
103,591	56,806	94,289	21,692	47,773	59,618	109,330	62,051	85,289	64,071

‡ Doubtful.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	Catchment area above site.	1906.	1907.
			Sq. miles.	M. c. ft. DECCAN	M. c. ft. (GHAT)
32	2&3	Darna at Nandgaon ..	156	21,003	36,187
33	2&3	Aundha Nala at Mukhne ..	52	6,786	10,808
34	2&3	Karwa at Pimpalgaon ..	67	3,214	4,880
35	4	Pravara at Ojhar Weir ..	621	26,059	27,387
36	5	Mula at Chikalthan ..	581	28,509	30,601½
37	5	Mula at Rahuri ..	900	32,290	36,870½
38	6	Kukari at Edgaon ..	265	11,171	20,007
39	7	Mina at Wadgaon ..	78	5,502	7,162
40	8	Ghod at Nirgudsar ..	284	19,477	30,610
41	..	Ghod at Kathapur ..	427	..	..
42	6	Kukari at Shirapur ..	464	13,467	28,943
43	9	Bhima at Chas-kaman ..	140	9,176	18,155
44	10	Lake Fife at Khadukvasla ..	196	Transferred to	
45	11	Yelwandi at Bhatghar (Lake Whiting). ..	128	Transferred to	
46	..	Seena at Hatwalan ..	446	DECCAN 3,281	(DECCAN) 4,724
47	11	Gunjawni at Mohori ..	183	DECCAN 13,301	(GHAT) 28,151
48	..	Nira at Apti (formerly called Nira at Natambli). ..	59	..	..
49	11	Nira at Karanja ..	80	12,276	20,525
50	11	Nira at Vir ..	700	50,023	102,380
51	12	Krishna at Dhoni ..	84	..	28,110
52	12	Yerla at Yeralwadi ..	274	DECCAN 2,330	(DECCAN) 8,479
53	12	Koyna at Helwak ..	359	DECCAN 118,612	(GHAT) 173,655

V—contd.

1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
CATCHMENT).	CATCHMENT).	Figures from 1910 transferred to Statement V I.						..	..
17,378	13,773	11,955	2,091	13,521	4,285	9,938	3,253	3,703	3,892
5,313	14,971								
4,945	4,306	8,632	2,403	6,172	7,558	14,701	5,970	6,868	3,570
38,767	36,011	33,633	17,708	26,927	29,817	47,085	28,012	40,958	48,354
40,215	34,156	55,049‡	27,959‡	45,466‡	56,405	70,029‡	47,381‡	49,586‡	30,194
44,090	42,171	49,379	24,564‡	35,865‡	63,988‡	59,280‡	41,269‡	57,028‡	34,858
24,742	24,255	26,470	19,240	22,334	48,499‡	41,942	26,574	40,777	30,248
2,861	4,260	6,364	5,548	10,157	11,042	17,710‡	9,195‡	14,814	6,535
47,852	42,006	53,493	17,948	57,601	47,024	45,700	29,744	41,470	18,125
..	..	..	..	..	..	..	..	..	..
32,450	32,023	35,123	24,073	31,733	41,334	95,228	64,562	84,854‡	29,872‡
24,064	13,300	31,054	21,263	37,500	50,444	31,006	16,718	18,048	14,341
Statement VI.	Statement VI.								
CATCHMENT).	CATCHMENT).								
1,399	3,172	10,364	2,913	1,480	7,053	6,855	4,663	12,593	4,152
25,039	21,851	27,081	7,704	21,449	24,506	31,344	21,549	12,704	24,716
..	..	..	..	..	..	..	..	..	..
20,363	18,806	25,963	9,068	15,583	20,324	25,823	14,411	23,300	24,229
103,098	83,392	90,755	61,956	81,890	82,230	127,661	91,370	63,950	85,122
26,160	21,232	44,183	14,077	35,855	29,721	45,737	31,189	17,477	15,926
CATCHMENT).	CATCHMENT).								
4,621	5,423	6,078	3,130	4,193	4,005	3,236	3,340	6,094	2,361
CATCHMENT).	CATCHMENT).								
168,795	177,940	167,482	108,226	76,623	152,291	236,457	134,472	139,684	130,530

‡ Doubtful.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	Catchment area above site.	1906.	1907.
			Sq. miles.	M. c. ft.	M. c. ft.
				DECCAN	(GHAT)
54	..	Krishna at Khodsi Weir ..	*1,322	67,822	82,745
55	..	Krishna at Kusnal ..	7,200	..	..
56	13	Harankashi at Ajra ..	94	32,900	42,172
57	13 & 14	Ghataprabha at Hadlag ..	134	30,021	50,289
58	13 & 14	Ghataprabha at Gokak or Dhupdal Weir.	††1,080	80,587	153,913
59	13 & 14	Tamraparni at Rajgoli ..	206	21,079	36,614
60	14	Markandya at Shirur ..	165	4,138	8,398
61	15	Malaprabha at Bhutewadi ..	126	..	30,181
62	15	Malaprabha at Khanapur ..	179	..	32,203
63	16	Wardha at Banyasi (Bhasi) ..	444	..	..
64	.. 22	Dharma near Shringeriwad\$...	60	..	..
65	21	Kumudvati River, Bellur village, and Madag Tank.**	540	..	..

* This figure of the catchment area has been verified and found correct. The figure 1,284 square miles seems to be the catchment area of the river up to the previous river gauge station at Umbra which has long since been discontinued.

V—contd.

1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
CATCHMENT.									
90,018	71,178	72,720	38,982	50,490	73,983	100,834	96,480	73,440	70,815
..	..	..	..	..	..	..	..	..	..
48,802	37,734	41,800	35,545	51,267	33,844	64,041	41,072	52,347	81,858
50,538	38,934	35,400	32,521	57,458	37,016	67,050	33,928	87,814	37,013
155,933	107,750	100,267	84,545	172,750	62,958	217,501	113,252	134,246	119,043
37,886	27,007	25,018	21,451	51,954	29,077	74,086	30,173	32,714	26,828
8,135	4,052	8,304	2,007	15,397	3,873	x	5,801	5,257	4,223
21,057	15,005	13,942	11,727	28,707	14,238	29,077	11,580	14,304	10,327
24,407	18,884	15,755	10,823	33,345	15,147	44,421	17,479	19,770	16,658
47,061	30,314	33,744	31,668	62,078	41,400	55,954	22,849	44,819	39,223
1,070	2,030	1,432	910	3,746	1,125	5,402	1,024	1,607	1,285
18,696	15,140	20,424	17,711	24,828	20,061	23,300	8,800	11,944	11,607

x Discharges observed not reliable.

STATEMENT

Abstract Statement of yearly Discharges of

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
1	18	Sabarmati near Hadol ..	8,084	27,265	16,493	26,717	387	21,879
						(GUJARAT		CATCH
2	18	Sabarmati near Dudheshwar	16,133	37,144	19,510	20,140*	718	32,132
3	17	Hathmati near Himatnagar (Ahmednagar, Idar).	4,906	19,076	6,431	9,356	408	6,037
4	20	Khari near Raipur ..	1,050	5,119	2,072	2,854	539	990
5	..	Meshwa near Harsol ..	2,271	9,614	3,595	5,564	170	2,070
6	..	Watrak River near Ratanpur	2,897	11,331	16,830	25,010	139	6,040
7	..	Mohor River near road-bridge over Nadiad-Kapadvanj Road.	94	3,275	1,199	3,053	..	781

Notes.—The observations made pertain to the

† Doubtful.

‡ The rainfall recorded is correct

§ The rainfall recorded is correct

¶ The run-off is from actually

V—contd.

Rivers in the Deccan and Gujarat—contd.

1923-24.	1924-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft. MENT).	M. c. ft.	M. c. ft.		Inches.			
6,015	10,871	4,720	Hadol 15·72	115·72	70·46	1	The river was gauged from 1st May 1925 to 30th April 1926.* The excessive loss in discharge between Hadol and Dudheshwar is probably due to heavy leakage in the boulder formation of the river channel passing from the sub-montane tract.
8,081	13,444	6,330	Mount Abu 37·02, Hadol 15·72, Idar 24·76, Himatnagar 19·35, Sadra 16·09, Ahmedabad 21·76.	122·45	70·028	2	
467	3,358	1,673	Idar 24·76, Himatnagar 19·35.	122·05	70·062	3	The river was gauged from 4th June 1925 to 1st October 1925 and 13th to 16th October and 21st December to 23rd December 1925.
174	441	96	Himatnagar 19·35, Prantij 13·43, Raipur 22·91.	118·56	70·007	4	The river was gauged from 14th July to 17th September 1925. *Out of this 534 m.c. ft. were run from the Bokh reservoir and 660 from the Hathmati Canal. †This is purely from its catchment exclusive of supplies from other sources such as the Bokh reservoir Bhujwa nalla and Hathmati Canal tail.
50·1	2,340	503	Modasa 18·81, Mobanpur 16·43, Harsol (Timbuktank) 12·60.	115·97	70·032	5	The river was gauged from 24th June 1925 to 25th January 1926.
16,445	11,249	3,652	Modasa 18·81, Ratanpur 18·60.	118·70	70·137	6	The river was gauged from 4th June 1925 to 7th December 1925.
11,080	2,451	1,907	Kapadvanj 17·61	117·84	70·200	7	The river was gauged from 6th June 1925 to 5th October 1925.

period 1st May to 30th April following.

for only a portion of the catchment.
for the whole catchment.
measured discharges.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
8	19	Mahi near Pali ..	M. c. ft. 71,824	M. c. ft. 502,389	M. c. ft. 281,382	M. c. ft. 286,384	M. c. ft. 1,482	M. c. ft. 209,488
9	..	••Panam at Railway bridge near Lunawada.	8,783	58,893	82,235	37,036	111	13,864
10	..	Narbada at Gurdeshwar ..	60,391	24,001	(CENTRAL INDIA CATCH 28,424	37,449	20,864	62,715
11	..	Arunawati at Karwand ..	243	2,334	DECCAN (DECCAN CATCH 2,568	4,156	..	1,548
12	..	Tapti at Dholan Pardi ..	18,115	5,250	(CENTRAL INDIA CATCH 4,452	3,804	4,013	7,108
13	..	Aner at Ganpur ..	928	6,301	DECCAN (DECCAN CATCH 3,931	4,071	302	6,923
14	..	Tapti at Kathora ..	20,313	77,137	(CENTRAL INDIA CATCH 42,076	123,882	2,293	97,402

§ The rainfall recorded is correct

† The rainfall recorded is correct

‡ The run-off is from

* During the year under review new tables of areas and wetted perimeters

V—*contd.*

1923-24.	1924-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rain-fall for 1925-26.	Proportion of run-off to rain-fall.	Serial No.	Remarks.
M. c. ft.	M. c. ft.	M. c. ft.		Inches.			
178,904	358,882	48,315	Sevalia 22·80 Balasinor 24·56 Lunavada 14·82 Sant Ram- 20·54 pur. Neemuch 23·84 Jhalod 16·45 Dohad 14·33 Devgad 24·14 Baria. Godhra 24·02	\$20·61	†0·085	8	The river was gauged from 1st May to 16th May 1925 and from 5th June 1925 to 10th March 1926.
4,636	7,567	2,610	Lunawada 14·82 Devgad 24·14 Baria.	†10·48	†0·059	9	The river was gauged from 13th June 1925 to 14th October 1925. **From the year 1922 the discharge of the Panam river is measured at this site and not near Ambli Muvada as in the previous years.
MENT). 83,940	82,178	27,616	....	..	..	10	The gauges have been maintained for measuring the minimum flow only; the figures therefore represent the hot weather flow only.
MENT). 1,397	1,152	1,189	Karwand 15·28	†15·28	†·13	11	
MENT). 6,977	5,037	2,025	....	..	..	12	The gauges have been maintained for measuring the minimum flow only; the figures therefore represent the hot weather flow only.
MENT). 3,403	1,867	†† 2,030	Chopada 21·29	†21·29	†·08	13	
MENT). 81,587	110,809	50,791	....	..	..	14	The rain gauges in the catchment of the Tapi at Kathora are insufficient to give any indication of run-off throughout the year and hence run-off to rainfall has not been marked out.

for only a portion of the catchment.

for the whole catchment.

actually measured discharges.

were prepared and utilised in calculating the discharges in question.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
15	..	Kan at Khandbara ..	2,069*	3,576	772	3,375*	9	4,628
					DECCAN (D	ECCAN	CATCH	
16	..	Waghur at Raipur ..	3,591	10,037	4,234	10,593	1,975	8,110
					DECCAN	(GHAT	CATCH	
17	..	Panjra at Pankheda ..	1,273	6,460	1,601	5,678	94	8,309
18	..	Panjra near Nyhalod ..	1,580	16,502	1,033	8,135	410	8,004
19	..	Panjra near Dhulia ..	1,718	10,501	1,007	6,320	275	5,389
20	..	Bori at Purnapada ..	..	1,242	253	2,170	..	1,378
					DECCAN (D	ECCAN	CATCH	
21	..	Mosam at Sangameshwar ..	2,034	26,169	2,659	4,756	..	5,540
					DECCAN	(GHAT	CATCH	
22	..	Girna at Thengoda ..	4,932	10,166	3,170	8,571	..	12,827
23	23	Girna at Jamda ..	6,942	57,856	9,061	20,416	651	24,796
24	23	Girna at Rahipuri ..	6,235	54,800	9,706	42,885*	..	24,076

* Doubtful.

‡ The rainfall is correct

§ The run-off is from actually

†† During the year under review new tables of areas and wetted perimeters were

V—contd.

1923-24.	1924-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.		Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft. MENT).	M. c. ft.	M. c. ft.			Inches.			
10,829	8,171	††1,920	Amlī Choupala	24·26 25·62	†24·04	..	15	Discharges for June and July only. Figures from August are incorrect and cannot be corrected.
5,115 MENT).	7,802	3,844	Raipur Jamner	19·02 19·77	†19·39	§·12	16	
5,523	5,086	1,237	Pimpalner	17·42	†17·42	§·59	17	
11,041·39	11,620·22	7,095·93	Nyhalod Aimbh Chawpala Dhulia	15·72 30·92 32·35 21·84	25·21	·15	18	Discharge at Nimkhedi weir observed from 1st May 1925 to 30th April 1926.
8176·95	7,311·80	4,978·82	Dhulla Ambli Chowpala	21·84 30·92 32·35	28·37	0·10	19	Discharge at Mahindale weir observed from 1st May 1925 to 30th April 1926.
1,407 MENT).	5,603	1,725	Purmapada	10·29	†10·29	§·62	20	Figures for the years 1897 to 1905 are also available. *Several days omitted so that this figure is too low.
12,242 MENT).	11,315	3,275	Nampur Taharabad Visapur	12·15 12·10 21·54	†15·26	§·28	21	
11,408	18,364	9,047	Chankapur Hatgad Kalwan Thengoda	27·59 52·50 21·47 13·04	†29·90	§·32	22	
25,330·8	37,876·68	10,031·53	Nampur Lakhmapur. Malegaon	12·15 14·79 15·36	18·05	0·18	23	The discharge is observed from 1st May to 31st Oct. 1925.
25,672·8	42,819·83	17,948·26	Nandurtek Satana Taharabad Umrane Chankapur Hatgad Kalvan Thengoda Jamda	10·20 14·17 12·10 10·15 25·73 51·11 17·17 15·15 18·58			24	

for the whole catchment.
measured discharges.
Prepared and utilised in calculating the discharges in question.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
25	..	Manad at dam site (Saygaon).	306	4,782	393	DEC CAN (D) 7,177	ECCAN 88	CATCH 7,910
26	2	Unonda at Wazarkhed ..	875	9,809*	517	D ECCAN 1,074	(GHAT ..	CATCH 2,169
27	2	Kadwa at Karanjwan ..	2,992	9,730	2,496	5,309	..	6,861
28	..	Odal at Khadakozath ..	290	2,320	191	DEC CAN (D) 980*	ECCAN ..	CATCH 97
29	2	Kadwa at Palkhed ..	10,513	38,278	7,335	D ECCAN 24,125	(GHAT ..	CATCH 19,053
30	1 & 2	Godavari at Gangapur ..	6,182	17,160	7,078	11,577	19	14,644

* Doubtful.

‡ The rainfall is correct for

§ The run-of is from

†† During the year under review new tables of areas and wetted perimeters were

V—contd.

1923-24.	1924-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft.	M. c. ft.	M. c. ft.		Inches.			
MENT).							
3,384	2,073	2,784	Nandgaon 21·57 Nayadongri 10·50	16·03†	·22§	25	
MENT).							
4,400	4,094	2,832	Wazarkhed 29·30 Achala Fort 35·32 K a r a n j- 44·52 khed. Wani 24·78	33·50†	·54§	26	
8,175	7,136	4,153	Charosa 44·01 Koshimba 30·40 Bhanwad 57·72 Nalwadi 29·05	40·29†	·46§	27	
MENT).							
590	921	191	No rain gauge station.	..	..	28	
MENT).							
16,517	17,054	8,563	Inspection Bungalow, Waghad.. 45·15 Sub o r d i- n a t e's quart e r s, Waghad.. 37·53 Chac h a d- gaon .. 47·21 Charosa 44·01 Achala Fort 35·32 Koshimba 30·40 Wazarkhed 29·30 Palkhed 18·90 Dindori 20·93 Bhanwad 57·72 Jalkheda 42·48 Karanjkhed 44·52 Nalwadi 29·05 Pophalwadi 50·96 Sadral 44·38 Wani 24·78 Rasegaon 23·98	36·87†	·32§	29	Figures from 1895 to 1905 are also available.
13,008	14,717	6,501††	Waghera 27·06 Girnara 23·98 Trimbak 72·36	41·13†	·47§	30	

the whole catchment.

*actually measured discharges.

†prepared and utilised in calculating the discharges in question.

STATEMENT

Serial No.	Project number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
81	2	Godavari at Nandur-Madhmeshwar.	27,633	106,046	49,021	D ECCAN 60,012	(GHAT ..	CATCH 68,206
32	2 & 3	Darna at Nandgaon ..	..	..	..	..	..	..
33	2 & 3	Aundha Nala at Mukhne ..	1,622	4,008||	3,985	3,743	..	×
34	2 & 3	Karwa at Plimpalgaon ..	771	4,149||	2,107	2,708	..	3,615
35	4	Pravara at Ojhar Weir ..	13,055	40,506	30,594	19,360	..	1,198||

× Discharges observed
† During the year under review fresh cross and longitudinal sections were
of areas and wetted perimeters were prepared and
‡ Gauges tempered.

‡ The rainfall is correct
§ The run off is from actually
|| Doubtful.

V—contd.

1923-24.	1924-25.	1925-26	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft.	M. c. ft.	M. c. ft.		Inches.			
MENT). 72,013	80,043	43,867	Nasik 21.85 Deolali 13.97 Kherwadi 9.42 Girnare 23.98 Waghare 27.06 Palkhed 18.96 Wazarkhed 29.39 Achala Fort 35.32 Waghad In- spection Bun- galow 45.15 Subordinate's quarters Waghad 37.53 Ozar Tambati 17.97 Ambewadi 130.99 Koshimba 30.40 Indore 45.66 Kusegaon 62.98 Chachadgaon 47.21 Pimpalgaon 18.42 Niphad 17.44 Dindori 20.93 Taked 29.40 Igatpuri 106.84 Nalwadi 29.05 Bhanwad 57.72 Wani 24.78 Rasegaon 23.98 Jalkheda 42.48 Sadral 44.38 Pophalwadi 50.96 Ghoti Railway Station. 76.11 Dhamangaon 25.81 Walvihir 88.33 Jamundi 134.68 Waghare 88.47 Trimbak 72.36 Karanjkhed 44.52 Darna Dam 27.45 Charosa 44.01 Nandurmath - meshwar 35.37	44.77†	.265	31	
..	..	..	....	..	..	32	
7,860	11,114	2,724	Kusegaon 62.93	62.98†	.365	33	
8,222	8,950	2,297	Taked 29.40 Indore 45.66 Dhamangaon .. 25.81	33.62†	.445	34	
31,359	29,934	25,592	Akola 22.04 Sangamner 10.86 Ghatghar on hill. .. Ghatghar village. 169.23 Ghatghar Bungalow 174.56 Bhandar- dara .. 144.22 Udavna 179.28 Samrad† .. Panjre† .. Shipthar - war 216.18	50.57†	.365	35	Figures are also available from 1882 to 1905. Total average rainfall has been worked out from areas of in- fluence since 1922.

not reliable,
taken and as there were changes in them from the last taken, new tables
utilised in calculating the discharges in question.

for the whole catchment.
measured discharges.

STATEMENT

Serial No.	Project number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
						DECCAN	(GHAT	CATCH
36	5	Mula at Chikalthan ..	9,447	35,053	17,307	24,091	..	28,308
37	5	Mula at Rahuri ..	13,748	48,288	21,511	40,304	449	64,106
38	6	Kukari at Edgaon ..	11,763	31,215	13,675	20,006	..	23,483
39	7	Mina at Wadgaon ..	1,090	7,108	3,450	7,111	..	5,158
40	8	Ghod at Nirgudar ..	7,221	27,582	16,804	22,702†	..	10,980
41	..	Ghod at Kathapur ..	..	..	..	..	17	124
42	6	Kukari at Shirpur ..	9,114†	42,425	33,603	24,199	8	82,530
43	9	Bhima at Chaskaman ..	5,633	18,182	9,275	12,871	..	12,067
44	10	Lake Fife at Khadakvasla..	..	..	..	Transferred to Stateme		
45	11	Yelwandi at Bhatghar (Lake Whiting).	..	..	..	..	..	..
46	..	Seena at Hatwala ..	131	5,858	755	1,638	..	2,843
						DECCAN	(GHAT	CATCH
47	11	Gunjawni at Mohori ..	7,425	23,917	23,905	20,410	52	28,916

* During the year under review fresh cross and longitudinal sections were of areas and wetted perimeters were prepared and

† Doubtful.

‡ The rainfall is correct for

§ The run-off is from actually

V—contd.

1923-24.	1924-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft.	M. c. ft.	M. c. ft.		Inches.			
MENTY).							
27,855	31,117	21,218	Pachnai 178·27 Kotul 21·03 Chas 15·46 Harischan- dragad. 228·01 Brahman- pada. 29·04	94·36†	·17§	36	
33,777	33,883	28,405	Rahuri 13·96 Pachnai 178·27 Kotul 21·03 Chas 15·46 Harischan- dragad. 228·01 Brahman- pada. 29·04	80·96†	·17§	37	
22,620	30,522	18,300	Junnar 18·10 Otur 13·79 Pur 56·91 Malsej 79·72	42·13†	·71§	38	Discharge and rainfall from June to December.
10,053	7,506	3,493	Shivalli Dhaman- khed. 17·13	33·87†	·57§	39	
20,553	34,391	16,425	Aupe 153·00 Asane 80·14 Manchar 11·04 Ghoda 22·53	66·90†	·37§	40	
664	341	66	....	..	..	41	The gauges have been maintained for measuring the minimum flow only; the figures therefore represent the hot weather flow only.
33,471	40,042	23,961*	Junnar 22·92 Otur 13·79 Pur 56·91 Malsej 79·72	43·33†	·51§	42	Gauging started in December 1902
12,598	15,030	12,110	Bhima- shanker. 163·80 Chaskaman 18·48 Wada 31·61	71·30†	·52§	43	
nt VI.	..		....	..	..	44	
..	..		....	..	..	45	
MENTY).							
2,332	1,975	1,550	Ripon Hos- pital. 25·49 Kapurwadi 16·43	20·96†	·07§	46	
MENTY).							
20,970	20,391	18,280*	Khed Shiva- pur. 30·50 Margasne 38·26 Rajgad 112·84 Torna 69·20 Nasarapur 49·37 Kamthadi 31·44	55·27†	·78§	47	

taken and as there were changes in them from the last taken, new tables
utilised in calculating the discharges in question.
the whole catchment.
measured discharges.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
48	..	Nira at Apti (formerly called Nira at Natambi).	..	..	20,427	DECCAN 20,417	GHAT 13	CATCH 22,017
49	11	Nira at Karanja ..	8,542	31,886†	21,876	21,344	14†	21,933†
50	11	Nira at Vir ..	27,810	96,745	84,898	7,384	..	90,755
51	12	Krishna at Dhoni ..	6,704	15,995	14,847	15,376	84	16,905
52	12	Yerla at Yeralwadi ..	1,205	2,898	2,049	3,949	118	11,456
53	12	Koyna at Helwak ..	59,212	147,016	132,095	134,397	124	171,403

* During the year under review fresh cross and longitudinal sections were of areas and wetted perimeters were prepared and

† Doubtful.

‡ The rainfall is correct for

§ The run-off is from actually

V—contd.

1923-24.	1924-25	1925-26	Rain gauge station within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft. MENT).	M. c. ft.	M. c. ft.	.....	Inches.	..	48	Observations stopped since 1923.
22,369	18,174	15,170*	Nigurghar 80.02 Shirgaon 165.47 Apti 66.72 Hirdushi 100.20 Rajuri 146.25 Karangaon 186.75 Purakhurd 108.75 Karl 81.00 Natambi 75.50	1113.30	.675	49	
80,926	70,756	62,421	Bhordi 146.51 Torna 69.20 Rajgad 112.84 Bhatghar Bungalow. 36.98 Bhatghar village. 33.68 Shirgaon 165.47 Nigurghar 80.02 Margasne 38.26 Khod Shiva-30.50 pur. Purandhar 0.72 Vir 12.11 Apti 66.72 Hirdushi 100.20 Waroti 146.25 Bhutanda 75.25 Chandavni 134.25 KamraKhurd 71.75 Mhashivli 55.75 Kondgaon 136.00 Sandaswadi 70.50 Rajuri 146.25 Karangaon 186.75 PuraKhurd 108.75 Karl 81.00 Natambi 75.50 Nasrapur 49.37 Kamthadi 31.44 Bhor 28.12 Khandala 11.60	180.01	.485	50	Figures for 1888 to 1905 with the exception of those for 1900 are also available.
17,297	14,574	10,909	Dhom 37.27 Panchgani 44.79 Mahableshwar 214.74	198.93	.575	51	
MENT).							
4,244	6,082	1,540	Khatgun 15.02 Nehar 14.95 Vaduj 9.64	113.50	.185	52	Gauging started in July 1905. The site is below Nehr tank at Khadgaon weir.
MENT).							
179,208	131,515	128,086	Holvak 200.33 Malcolm-peth. 217.33 Bamnoli 81.15 Sonat 96.68 Mahableshwar. 214.74	1162.49	.915	53	Gauging started in July 1902.

taken and as there were changes in them from the last taken, new tables utilised in calculating the discharges in question.

the whole catchment.
measured discharges.

STATEMENT

Serial No.	Project Number as per map.	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
54	..	Krishna at Khodsi weir ..	M. c. ft. 23,138	M. c. ft. 74,698	M. c. ft. ..	M. c. ft. DECCAN 57,314	M. c. ft. (GHAT 345	M. c. ft. CATCH 91,701
55	..	Krishna at Kusnal ..	186,020	509,502	452,823	286,017	1,278	568,873
56	13	Harankashi at Ajra ..	20,023	32,842	31,114	34,334	148	39,969
57	13 & 14	Ghataprabha at Hadlaq ..	20,019	30,830	29,195	34,459	255	41,618
58	13 & 14	Ghataprabha at Gokak or Dhupdal Weir. .	60,890	99,345	92,537	111,002	389	113,589

* During the year under review fresh cross and longitudinal sections were of areas and wetted perimeters were prepared and

† The rainfall recorded is correct

‡ The run-off is calculated from

§ The rainfall is correct for

V—cont l.

1923-24.	1921-25.	1925-26.	Rain gauge stations within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft. MENT) 57,545	M. c. ft. 51,252	M. c. ft. 48,212	Mahableshwar, 214'64 Panchgani 42'17 Wai 17'33 Kas 157'41 Medha 51'76 Satara 26'47 Rewadi 24'20 Koregaon 16'30 Dhomo 37'27 Bamnoli 81'15	66'87	0'24	54	The discharge was observed from 1st May 1925 to 30th April 1926.
726,146	579,705	420,320	Dhomo 37'27, Helwak 200'33, Malcolm peth 217'33, Bamnoli 81'15, Sonat 98'88, Mahables- war 214'74, Khat- gun 15'02, Nehr- 14'95, Vaduj 9'64, Satara 26'27, Koregaon 16'47, Wani 17'34, Panchgani 44'79, Medha 53'43, Patan 60'21, Karad 23'21, Islampur 19'02, Shirala 27'94, Pucavall 10'68, Vita 12'13, Tas- gaon 18'02, Kas 157'94, Chikhali 6'89, Retra Bjk. 15'89, Mayani 10'83, Sangli 15'55, Miraj 16'81, Shirol 17'26, Kolhapur 32'46, Nipani 26'55, Chikoli 23'77, Kurund- wad 17'29, Gar- goti 55'64.	49'23½	0'50½	55	
48,400	26,172	31,133	Ajra 75'13 Gawasa 91'37 Amboli 248'55	138'35½	1'03½	56	By the isohyet method the proportion of run-off to rainfall comes to 0'67.
52,007	41,100	31,083	Adkur 66'74 Pundra 182'23	121'48½	0'82½	57	Figures are also available from 1887 to 1891 and also for 1903 and 1905.
167,745	126,806	124,404	Amboli 248'55 Pundra 182'23 Chandgad 110'01 Ajra 75'13 Tambul- wadi. Gad Hinglaj 36'18 Denali 33'30 Sankeshwar 22'11 Hukeri 16'51 Hattargi 12'54	83'20½	0'60½	58	†† Length of catchment area is 70 miles. Figures for 1891 to 1905 are also available.

taken and as there were changes in them from the last taken new tables
utilised in calculating the discharges in question.
for only a portion of the catchment.
actually measured discharges.
the whole catchment.

STATEMENT

Serial No.	Project Number as per map	Name of river and site.	1918.	1919.	1920.	1921.	1st January 1922 to 30th April 1922.	1st May 1922 to 30th April 1923.
			M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
69	13 & 14	Tamraparni at Rajgoh ..	12,306	24,358	23,154	20,213	208	30,320
60	14	Markandya at Shirur ..	998	3,096	4,477	5,985	110	5,028
61	15	Malaprabha at Bhutewadi ..	3,807	10,397	11,726	12,036	66	12,725
62	15	Malaprabha at Khanapur ..	5,975	15,545	10,033	13,883	145	19,031
63	16	Wardha at Banwasi (Bhasi) ..	21,053	38,002	33,102	35,647	121	28,953
64	22	Dharma near Shringeriwad ..	376	1,288	871	1,277	..	1,527
65	21	Kumudvati River, Bellur village and Madag Tank.	0,025	0,373	0,061	8,064	146	6,454

* During the year under review fresh cross and longitudinal sections were of areas and wetted perimeters were prepared and

† The rainfall recorded is correct

‡ The run-off is calculated from

§ The rainfall is correct for

V—*conold.*

1923-24.	1924-25.	1925-26.	Rain gauge station within the catchment and rainfall in inches for 1925-26.	Total average rainfall for 1925-26.	Proportion of run-off to rainfall.	Serial No.	Remarks.
M. c. ft.	M. c. ft.	M. c. ft.		Inches.			
42,130	33,940	31,106	Wagotra 184.80 Patne 126.14 Chandgad 110.01 Rajgoli 30.22 Tambulwadi. 90.03	109.465	0.594	50	Gauging started in Aug. 1902.
6,957	5,894	5,109	Bennli 33.30 Turmar 66.31 Betgaum 43.09	47.575	0.284	60	
22,613	16,083*	10,701	Kumkumbi 194.56 Jamboti 124.70	159.665	0.364	61	
31,610	22,107	21,452	Kumkumbi 194.56 Jamboti 124.70 Khanapur 67.34	128.805	0.404	62	
67,821	44,010	58,808*	Sirsi 101.73 Siddapur 125.05	113.845	0.504	63	Gauging started in 1908.
4,477	2,191	3,758	Yekambi 91.10	91.104	0.364	64	Figures for the years 1882 to 1896 are also available. The catchment area is 10 miles in length.
20,072	17,413	20,551	Kalmari 53.27	53.274	0.314	65	Figures are also available from 1860 to 1894. *Length of catchment area of Madag tank is 46 miles.

taken and as there were changes in them from the last taken, new tables
utilised in calculating the discharges in question.
for only a portion of the catchment.
actually measured discharges.
the whole catchment.

STATEMENT

Observed Annual Discharges

The results are obtained from the observations on the quantities of the years noted. The proportion the discharge obtained bears the number of rain gauge stations are far too few to
The object of the return is to show the supply of area in situations similar to

Serial No	Name of Tank.	Contents of the Tank.	Catchment area.	Length of Catchment area.	1906.
					M. c. ft.
		M. c. ft.	Sq. miles.	Miles.	GUJARAT
1	Muvalla Tank ..	237	30	10	577*
2	Wangroli Tank ..	212	13	6	481*
3	Salat Tank ..	135	12.5	8	..
4	Savli Tank ..	172	11	4	..
5	Futelao Tank ..	56	7	4	..
6	Nagrama Tank ..	97	1.5	1½	..
7	Tranja Tank ..	80	Nil.	Nil.	DECCAN.
8	Mhaswad Tank ..	2,601	480	35	2,647
9	Lake Fife at Khadakvasla.	3,955	190	24	41,207*
10	Ekrak Tank ..	2,616½	150	15½	2,020
11	Lake Beale (Darna Dam)..	7,763	150	25	..
12	Bhandardara Dam (Lake Arthur Hill)	10,531	47	9½	..
13	Lake Whiting on Yelwandol at Bhatghar.	5,313	128	21	30,601*
14	Chankapur Tank ..	1,548	100	10½	..
15	Ashti Tank ..	1,411*	92	14½	1,408
16	Nehr Tank ..	(a) 107	50.5	10	398

Note.—The observations made pertain to

N.B.—During the years marked

× Discharge observed

1 The discharge

§ The tank was under construction and

(a) Original contents of 400 M. Cf. are now reduced by silt deposit as ascertained by the recent silt survey.

* This figure is given in

VI.

from Catchment Areas.

water stored in the tanks and discharged over their waste weirs during to the recorded rainfall is not given in this statement, because admit of this calculation being made accurately.
water that may be expected from a given catchment those under observation.

Run-off or discharge observed.

1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
212	337*	740*	1,189*	Nil.	243*	1,352*	135
170	350*	75	141	Nil.	323*	343*	119
..	..	..	125	Nil.	150	372*	188*
..	..	45	85	Nil.	161*	219*	72
..	..	..	..	..	..	..	..
..	..	..	..	..	97	28	Nil.
..	..	..	..	..	74	48	Nil.
2,631	4,185*	5,324*	13,939*	3,936*	1,278	2,145	2,258
72,080*	67,355*	62,324*	53,056*	35,076*	52,264*	54,800*	78,821*
1,564	1,597	3,811*	x	769	606	1,238	2,208
..	..	..	24,054*	16,358*	28,019*	41,044*	30,550*
..	..	..	..	..	..	..	..
43,780*	40,086*	35,997*	38,185*	21,073*	34,650*	35,229*	45,412*
..	..	..	..	2,288*	9,845*	9,455*	8,034*
268	943	868	4,545*	635	65	361	700
1,480	802	840	1,724	1,863	1,305	1,137	1,085

the period 1st May to 30th April following.

(*) the tank overflowed.

not reliable.

figure is doubtful.

no observations could be taken.

(b) Original contents of 115 M. Cft. are now reduced by silt deposit as ascertained by the recent silt survey.
round number.

STATEMENT

Serial No.	Name of Tank.	Contents of the Tank.	Catchment area.	Length of Catchment area.	1906.
					M. c. ft.
		M. c. ft.	Sq. miles.	Miles.	DECCAN
17	Maini Tank ..	(b) 75	52	8½	1,118
18	Bhatodi Tank ..	50†	44	30	399
19	Dambal Tank "	114	43	7½	148*
20	Mukti Tank ..	(a) 324	34.20	10	1,474*
21	Waghad Tank ..	600	29	6½	2,087*
22	Pathri Tank ..	415†	27.5	9½	..
23	Muchkundi Tank ..	705	26	7	78
24	Shirsuphal Tank ..	365	23.50	6½	306
25	Bhadaiwadi Tank ..	222	23	7½	600*†
26	Asundi Tank ..	74	23	3½	122
27	Parsul Tank ..	119	17.75	9½	185*
28	Wadshivne Tank ..	203	14.5	5	..
29	Mhaswa Tank ..	153†	13.4	5	640*
30	Medleri Tank ..	58	11	4½	95
31	Talwada Tank ..	116	10.50	6	4
32	Shedbal Tank ..	(b) 20	7.81	3½	..
33	Koregaon Tank ..	83†	7	4½	215*
34	Hartala Tank ..	135	6.80	2½	41
35	Khirdi Sathe Tank ..	91	6.45	2½	39
36	Mavinkop Tank ..	43	6.25	3½	..
37	Gadikeri Tank ..	34	4.68	2½	..
38	Killedkeri Tank ..	22	1.56	1½	..

Note.—The observations made pertain to
N.B.—During the years marked
 × Discharge observed
 † The discharge
 † This figure is given

VI—*contd.*Run-off or discharge observed—*contd.*

1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
<i>—concl'd.</i>							
1,839	3,420	2,158	3,214	319	122	676	3,041
1,109*	288*	3,130*	2,320*	42	13	224*	1,452*
173	56	112	239	3	232	95	13
146	59	181	1,051*	3	73	123	348*
3,190*	2,817*	2,850*	1,942*	1,894*	2,868*	2,812*	5,827*
.	515*	488*	950*	393*	34	240	836*
..	..	191	60	47	..	..	36
113	75	161	108	24	32	47	179
55	207	125	191	132	84	91	126
115	31	40	Not observed.	7	164	183	210
116	41	137	405*	48	64	340*	829*
..	97	357*	55	24	24	65	62
703*	138	696*	309*	<i>Nil.</i>	104	x	348*
85*	56	24	501	10	61	42	14
3	<i>Nil.</i>	<i>Nil.</i>	56	9	70	76	151
..	..	..	..	x	x	x	x
73	61	74	238*	94	19	33	181*
71	40	48	94	<i>Nil.</i>	17	70	287*
27	13	19	127*	30	26	47	70
..	..	..	..	..	..	..	..
..	..	..	..	1	322	25	771
..	..	..	..	14	115	23	109

the period 1st May to 30th April following.

(*) the tank overflowed.

not reliable.

figure is doubtful.

in round number.

STATEMENT

Observed Annual Discharges

The results are obtained from the observations on the quantities of the years noted. The proportion the discharge obtained bears the number of rain gauge stations are far too few to
The object of the return is to show the supply of area in situations similar to

Serial No.	Name of Tank.	Run-off or					
		1915.	1916.	1917.	1918.	1919.	1920.
		M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
1	Muvalla Tank ..	105	750*	3,535*	40	3,018*	61
2	Wangroli Tank ..	2	89	481*	3	184	80
3	Saiat Tank ..	Nil.	Nil.	420*	1	139*	25
4	Savli Tank ..	37	50	137	1	131	67
5	Futelao Tank ..	....	....	112	1	145*	3
6	Nazrama Tank ..	Nil.	Nil.	23	Nil.	Nil.	Nil.
7	Tranja Tank ..	Nil.	Nil.	64	Nil.	Nil.	Nil.
8	Mhaswad Tank ..	4,030*	x*	2,010*	388	5,334*	1,091
9	Lake Fife at Khadakwasla.	38,622*	35,483*	48,845*	17,357*	48,887*	46,695*
10	Ekruk Tank ..	3,658*	6,117*	3,893*	253	2,346	154
11	Lake Beale (Darna Dam) .	19,158*	21,893*	34,113*	9,663*	27,572*	21,381*
12	Bhandardara Dam (Lake Arthur Hill).	....	....	....	....	....	..
13	Lake Whiting on Yelwandi at Bhatghar.	26,781*	23,812*	42,512*	10,025*	42,673*	37,728*
14	Chankapur Tank ..	3,797*	5,110*	7,392*	1,346*	9,732*	1,448*
15	Ashti Tank ..	1,684*	1,614*	1,649*	24	1,818	183

Note.—The observations made
N.B.—During the years
x Discharge
† The discharge

VI—*contd.**from Catchment Areas—contd.*

water stored in the tanks and discharged over their waste weirs during to the recorded rainfall is not given in this statement, because admit of this calculation being made accurately.
water that may be expected from a given catchment those under observation—*contd.*

discharge observed— <i>contd.</i>					Serial No.	Remarks.
1921.	1922.	1923-24.	1924-25.	1925-26		
M. c. ft. — <i>concd.</i>	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.		
8,048*	804*	142	253*	56.48	1	Catchment area is hilly, valleys or low lands being cultivated. The tank received only $\frac{1}{2}$ run-off.
500*	24	Nil.	61	88.84	2	The catchment area consists of brownish black soil and has a steep fall favourable to a good run-off. During the year the tank received only $\frac{1}{2}$ run-off.
..	..	..	..	..	..	..
600*	111	Nil.	25	90.20	3	The tank received only $\frac{3}{4}$ run-off.
208	51	7	108	33.58	4	The tank received only $\frac{1}{2}$ run-off.
220*	16	5	5	0.92	5	The tank was completed in November 1916 and observations for the flow into the tank were taken in 1917 for the first time. The tank was practically empty as there was no run-off from the catchment.
2	..	Nil.	....	....	6	These works were completed in 1909. In 1910 and 1911 the tanks were empty. These tanks are fed by means of supply channels from the Matar Drainage Channel, which has a catchment area of 13 square miles and the length of the catchment basin is 10 miles. No run-off in Nagrama Tank. Tranja tank was practically empty.
24	..	Nil.	....	2.06	7	
2,688	437	2,401	1,092	768.26	8	Figures are also available for 1899 to 1905.
86,821*	48,048*	45,436*	42,296*	36,070*	9	
1,302	267	1,606.52	1,894.08	1,240.08	10	† Original contents of 8,310 m. c. ft. is now reduced by silt deposit as ascertained by recent silt survey. Figures are also available for 1899 to 1905.
25,760*	29,180*	25,032*	21,250*	21,277*	11	Ghat catchment.
..	..	..	10,380*	26,906*	12	This appears for the first time in 1924.
35,736*	42,130*	40,768*	24,043*	27,312*	13	Figures are also available from 1888 to 1905.
4,300*	6,006*	3,246*	3,430*	3,103*	14	Ghat catchment.
350	23	288.26	1,121.58	977.66	15	Figures are also available for 1899 to 1905.

pertain to the period 1st May to 30th April following.
marked (*) the tank overflowed.
observed not reliable.
figure is doubtful.

STATEMENT

Serial No.	Name of Tank.	Run-off or discharge					
		1915.	1916.	1917.	1918.	1919.	1920.
		M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
							DECCAN
16	Nehr Tank ..	1,243	1,719*	468	415	386	..
17	Maini Tank ..	1,331	0,056*	2,020*	050*	500	..
18	Bhatodl Tank ..	1,524*	2,243*	1,844*	..	2,712*	..
19	Dambal Tank ..	223*	426*	497*	226*	110	33
20	Mukti Tank ..	184	208*	151*	1	680*	16
21	Waghad Tank ..	1,001*	2,741*	3,150*	1,675*	4,000*	1,736*
22	Pathri Tank ..	979*	1,390*	806*	50	363	132
23	Muchkundi Tank ..	172	x*	102	112	283	332
24	Shirsuphal Tank ..	213	238	307*	Nil.	246	188
25	Bhadolwadi Tank ..	160	355*	232*	33	305*	68
26	Asundi Tank ..	228*	498*	1,178*†	179	188*	51
27	Parsul Tank ..	341*	676*	176*	Nil.	483*	Nil.

Note.—The observations made
N.B.—During the year.
 x Discharge
 † The discharge

VI—contd.

observed—contd.					Serial No.	Remarks.
1921.	1922.	1923-24.	1924-25.	1925-26		
M. c. ft. —contd.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.		
421	223	259·58	385·88	190·74	16	Figures are also available for 1899 to 1905.
710	381	91·91	117·61	107·78	17	The heavy discharge in 1916 was due to the abnormally heavy rainfall of 52·99 inches during that year which was the highest on record since 1899 and 20·88 inches more than the previous maximum rainfall in 1912. Figures are also available for 1899 to 1905.
..	..	..	..	212·85	18	Figures are also available for 1899 to 1905.
195	37	27	184	170	19	The waste weir overflowed in August. The rainfall was 25·00 inches. Figures are also available for 1899 to 1905.
254	157	342·09	727·09*	95·11	20	(a) Capacity reduced from 342 m. c. ft. owing to silt in tank. Figures are also available for 1899 to 1905.
2,106*	2,148*	2,038*	2,191*	1,331*	21	Ghat catchment. Figures are also available for 1900 to 1905.
258	62	585·30*	906·97*	214·91	22	
332	102	28	65·19	71·75	23	In 1916 the tank overflowed for the first time since its construction. The maximum height of flood was 6 feet over the crest of weir. The tank did not fill in the year under report. Rainfall 9·51 inches. Figures are also available for 1899 to 1905.
55	130	1	76	88	24	Figures are also available for 1899 to 1905.
139	23*	—12	44	65	25	
124*	696*	108	128*	105	26	Deccan catchment. The waste weir did not overflow. Rainfall 20·15 inches. Figures are also available for 1899 to 1905.
472*	..	334*	212*	89*	27	Figures are also available for 1899 to 1905.

pertain to the period 1st May to 30th April following.
marked (*) the tank overflowed.
observed not reliable.
figure is doubtful.

STATEMENT

Serial No.	Name of Tank.	Run-off or discharge					
		1915.	1916.	1917.	1918.	1919.	1920.
		M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.
						DECCAN	—concl'd.
28	Wadshivne Tank ..	81	213*	234*	30	180	116
29	Mhaswá Tank ..	148	184	506*	63	202*	56
30	Medleri Tank ..	43	84	540*‡	56	233*	68
31	Talwada Tank ..	33	67	91	5	11	24
32	Shedbal Tank ..	x	x*	x*	15	..	28
33	Koregaon Tank ..	225*	298*	164*	15	30	..
34	Hartala Tank ..	621*	376*	100	Nil.	42	2
35	Khirdi Sathe Tank ..	79	77	75	Nil.	102	Nil.
36	Mavinkop Tank ..	....	....	..	..	..	..
37	Gadikeri Tank ..	53	165*	108*	91*	52	..
38	Killedkeri Tank ..	33	72*	42*	14	37	..

Note.—The observation made

N.B.—During the year

x Discharge observed

‡ The discharge

VI—concl'd.

observed—concl'd.					Serial No.	Remarks.
1921.	1922.	1923-24.	1924-25.	1925-26.		
M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.	M. c. ft.		
70	36	89·04	65·78	66·27	28	
187	106	85·10	173·61	67·57	29	The F. S. L. of the tank was increased from R. L. 151·00 to R. L. 152·00 in March 1915 previous to which the contents of the tank were 158 m. c. ft. Figures are also available for 1899 to 1905.
43	76	40	124*	92	30	Waste weir did not overflow. Rainfall 21·79 inches. Figures are also available for 1899 to 1905.
22	..	18·89	53·11	7·97	31	The work appears for the first time in 1902.
24	22	..	11·92	1·67 inches maximum run off per hour.	32	(b) Corrected in 1920. No observations taken in 1923-24. The waste weir overflowed for a short time on the 20th September when the maximum depth of water over the crest was 2½ feet. The total discharge in m. c. ft. could not be given. The waste weir overflowed for a short time during a single day only. The depth of water on the crest rose and fell rapidly so that the total discharge that passed over the crest could not be ascertained. Rainfall 13·4 inches.
34	5	152·11*	90·46	27·78	33	Figures are also available for 1899 to 1905.
28	27	32·47	....	....	34	Figures are also available for 1900 to 1902 and for 1904 and 1905.
49	..	25	83	81	35	
..	29	97*	259*	83	36	The work appears for the first time in 1922. Waste weir did not overflow. Rainfall 51·67 inches. The rain gauge is not situated in the O. A.
..	12	51	69*	38	37	Waste weir did not overflow. Rainfall 84·07 inches.
..	..	..	....	....	38	Observations discontinued from 1922.

pertain to the period 1st May to 30th April following.

marked (*) the tank overflowed.

not reliable.

figure is doubtful.

STATEMENT

Statement of Extraordinary Flood

No.	Name of Stream.	Catchment area.	Length of Catchment area.	Discharge in cusecs.
		Sq. miles.	Miles.	
1	Hathmati River at Himatnagar (Ahmednagar, Idar State).	524	40	158,112
2	Lilka River in mile 11 of the Dhandhuka-Gogha Road.	50	14	20,000
3	Khara Ghore Tank in the Ahmedabad District.	43	17	18,741
4	Khandia River in mile 6 of the Godhra-Shera Road, Godhra Taluka.	35	8	15,963
5	Nala in mile 7 of the Ahmedabad-Dholka Road.	25	6	7,500
6	Chandrabbaga Nala on the Ahmedabad-Sabarmati Road.	23	8	9,290
7	Luni River on the Talod-Harsol Road, Prantij Taluka.	12	6	11,700
8	Salat Tank Nala ..	12.5	8	10,955
9	Karjan River at Nandod, Rajpipla State ..	540	27	386,813
10	Malan River at Mahuva in Kathiawar ..	116	23½	60,066
11	Kharf River at Palitana, Kathiawar ..	88	14½	111,788
12	Navali River at Kundla in Bhavnagar State ..	15	6½	48,180

Note (1):—*Mahi River*.—The flood level in the Mahi River had risen to 56 feet on 27th July 1913,
Panam River.—On 27th July 1913 the flood had risen about 40 feet above "zero of gauge".

VII.

Discharges from Catchment Areas.

Nature of Catchment.	Rate of Run-off, inches per hour.	Date of Flood.	Remarks.
GUJARAT.			
Hilly and woody	0·407	3rd August 1900. .	
Goradu and black	0·02	24th July 1905.	
Black and sandy soil	0·50	Do.	
Hilly with murum	0·70	Do.	
Goradu, sandy	0·50	Do.	
Do.	0·02	Do.	
Murum and laterite	1·50	15th July 1905.	
Flat consisting of cultivated fields and grass lands.	1·32	10th July 1913	.. The earthen dam breached.
Hilly area with trees, shrubs, etc.	1·11	27th June 1913	.. 20·30 inches of rain in 24 hours ending at 8 a.m. of the 28th June 1913 including the period of maximum fall of 5·24 inches in 2 hours, with an hourly intensity of 2 inches and 62 cents.
Up to first 8 miles length the catchment surface is barren and hilly and the remaining is flat cultivable lands.	0·02	12th June 1913	.. According to Mahuva dispensary gauge. Inches. On 11th from 15 to 24 hours .. 7·10 On 12th " " 0 to 2 " .. 4·05 On 12th " " 2 to 8 " .. 1·25 Total .. 13·00
Flat agricultural land devoid of trees and bushes.	1·98	Do.	.. 20 inches of rain in 24 hours on 12th June 1913 and 15 inches in 6 hours on 15th June 1913 at Palitana gauge.
Barren rocky surface	4·88	Do.	.. According to Kundla dispensary gauge. Inches. On 11th from 16 to 22 hours 5·00 " " 22 to 23 " .. 4·00 " " 23 to 24 " .. 7·00 On 12th " " 0 to 8 " .. 3·74 Total .. 20·43

i.e., about 16 feet above the section line recorded in the Executive Engineer's office.

Watrak River.—On 27th July 1913 the flood had risen about 40 feet above "zero of gauge".

STATEMENT

No.	Name of Stream.	Catchment area.	Length of Catchment area.	Discharge in cusecs.
		Acres.	Miles.	
13	Nala below Wangrolli Tank, Thasra Taluka.	600	1	816
14	Nala below Savli Tank, Kapadvanj Taluka.	170	0.5	345
15	Godavari at Kopargaon	8q. miles. 2,880	60	DECCAN 172,200
16	Godavari at Nandur-Madhmeshwar ..	1,650	48	{ 170,880 106,187 120,168
17	Godavari at Gangapur ..	145	18	{ 23,396 32,547 33,704
18	Ghataprabha at Dhupdal Weir	1,080	70	{ 126,667 112,240 144,344 218,600
19	Girna, near Malegaon, Taluka Malegaon, Nasik.	1,004	....	179,818
20	Panjhra, near Madhi, Taluka Amalner, Khandesh.	1,057	....	184,059
21	Panjhra, near Nahalod, Taluka Dhulla, Khandesh.	802	....	177,018
22	Panjhra, near Dhulla, Taluka Dhulla, Khandesh.	714	....	{ 172,037 334,500
23	Panjhra at Pankheda	52	10	{ 17,764 19,006 20,908
24	Mula and Mutha Rivers at Jamsetji Bund near Poona.	864	30	188,934
25	Kumudwadi River	540	46	....
26	Aner at Ganpur	502	35	{ 169,168 63,511
27	Kukari at Shirapur	464	40.5	{ 59,643 55,519
28	Vardha at Banvasi	444	16	{ 36,218 86,129
29	Musam, near Malegaon, Taluka Malegaon, Nasik.	372	....	58,052
30	Koyna at Helwak	359	40	{ 104,877 96,410 104,016 132,334 94,366 138,370 84,690 58,583
31	Kadwa at Palkhed	314	19.5	{ 26,411 54,116
32	Ghod at Nirgudsar	284	35	{ 66,352 133,068
33	Panjhra near Nandwan, Taluka Pimpalner, Khandesh.	283	....	37,114

VII—contd.

Nature of Catchment.	Rate of Run-off, inches per hour.	Date of Flood.	Remarks.
GUJARAT—concl'd.			
Goradu cultivated ..	1·86	23rd July 1905.	
Goradu grass land ..	2·02	Do.	
(GHAT CATCHMENT).			
Bounded by Ghats (4,000 to 5,000) falling abruptly to murum and black soil plain (2,000).	0·093	27th July 1912 ..	The H. F. L. is chisel cut on the masonry pillar of the ferry boat on Kopargaon side approaches.
{ Ghat Catchment .. { { Rock, murum, black and reddish soil. { { Ghat Catchment .. {	0·17	17th August 1907.	
	0·184	22nd July 1912.	
	0·12	18th July 1914.	
	0·25	13th September 1916.	
	0·35	6th October 1917.	
{ Rock, murum, black and reddish soil. { { Ghat Catchment .. { { Ghat Catchment .. {	0·36	27th July 1919.	
	0·18	15th July 1900.	
	0·16	4th August 1907.	
	0·207	23rd July 1912.	
	0·314	6th August 1914 ..	Great flood ever recorded since the construction of the weir, standing 7·5 feet above crest of weir for 3½ hours. Flood level on gauge was 29·5 feet on 6th August 1914 equivalent to R. L. 2015·5.
{ Rocky in the first reach, murum in the second and black soil in the last, Ghat Catchment. { { Do. .. {	0·26	Flood of 1896.	
	0·27		
	0·29		
{ Do. .. { { Do. .. {	0·33	Do.	
	0·73	27th June 1914 ..	The discharge of this flood is estimated, and as such is an approximate figure.
Half the catchment area in culturable soil and the rest hilly tracks composed of murum and boulders.	0·53	6th September 1916.	
{ { { { { {	0·50	27th July 1910.	
	0·61	30th August 1924.	
	0·33	30th July 1896.	
Hilly tracks ..	0·1280	16th July 1882.	
{ Ghat Catchment .. { { Ghat Catchment .. {	0·52	22nd July 1905.	
	0·20	16th September 1914.	
{ Ghat Catchment .. { { Hilly country consisting wholly of forest land of hard ground. { { Rocky in the first reach, murum in the second and black soil in the last, Ghat Catchment. { { Steep hilly ground of the ghat description with much shrub jungle throughout. {	0·20	4th August 1914.	
	0·19	26th October 1916.	
	0·12	5th August 1916.	
	0·30	19th July 1925.	
	0·24	Flood of 1896.	
{ Steep hilly ground of the ghat description with much shrub jungle throughout. { { Partly hilly .. { { Ghat Catchment .. { { Rocky in the first reach, murum in the second and black soil in the last, Ghat Catchment. {	0·45	14th July 1903.	
	0·42	24th July 1905.	
	0·45	2nd October 1910.	
	0·57	22nd July 1912.	
	0·41	19th July 1913.	
	0·59	18th July 1914.	
	0·37	29th June 1915.	
	0·25	5th July 1918.	
	0·13	13th September 1916.	
	0·27	27th August 1917.	
{ Ghat Catchment .. { { Rocky in the first reach, murum in the second and black soil in the last, Ghat Catchment. {	0·36	26th October 1916.	
	0·73	29th August 1924.	
	0·204	Flood of 1896.	

STATEMENT

No.	Name of Stream.	Catchment area.	Length of Catchment area.	Discharge in cusecs.
		Sq. miles.	Miles.	DECCAN
34	Kukari at Edgaon ..	265	23	{ 48,065
35	Tamraparni at Rajgoli ..	206	28	{ 32,725
				{ 62,616
36	Lake Fife ..	196	24	{ 65,109
37	Gunjawani at Mohori ..	183	24	{ 81,270
38	Malaprabha at Khanapur ..	179	21	{ 35,719
				{ 81,333
39	Malaprabha at Bhutewadi ..	120	17	{ 13,064
40	Markandya at Shirur ..	165	24	{ 43,419
				{ 107,703
41	Darna at Nandgaon ..	156	25	{ 64,209
				{ 73,862
42	Bhima at Chas-Kaman ..	140	22	{ 55,663
				{ 68,473
43	Ghataprabha at Hadlag ..	134	26	{ 68,619
				{ 30,348
44	Lake Whiting ..	128	24	{ 51,505
45	Tambdi and Girna ..	100	14½	{ 165,102
46	Girna at Chankapur ..	100	10½	{ 16,100
				{ 45,137
47	Kadwa at Karanjawan ..	96	12½	{ 23,582
				{ 17,084
				{ 45,417
48	Harankashi at Ajra ..	94	14	{ 22,083
				{ 20,422
				{ 46,504
				{ 68,520
49	Nira at Karanja ..	86	14	{ 38,241
				{ 67,425
				{ 17,690
				{ 20,548
50	Krishna at Dhoni ..	84	12½	{ 17,548
				{ 25,572
				{ 26,337
51	Mina at Wadgaon ..	78	18½	{ 45,477
				{ 42,507
52	Unanda at Wazerkhed ..	68	14	{ 14,670
				{ 18,366
53	Karwa at Pimpalgaon ..	67	17	{ 29,039
				{ 21,777
54	Nira at Apti (formerly called Nira at Natambli).	59	11½	{ 32,375
55	Aundha Nala at Mukhne ..	52	18	{ 25,188
				{ 44,418
				{ 6,713
56	Khandbara Tank on the Kan River ..	34	7	{ 6,468
				{ 13,754
				{ 13,786
				{ 18,290
57	A small tributary of the Bedti River at the temporary bridge in mile 47 of the Karwar-Bellari Road.	20	8½	{ 24,532
				DECCAN
58	Raipur Tank on the Waghur River ..	700	24	{ 47,795

VII—*contd.*

Nature of Catchment.	Rate of Run-off, inches per hour.	Date of Flood.	Remarks.	
(GHAT CATCHMENT)— <i>concd.</i>				
} Ghat Catchment .. { Rocky in the first reach, murum and steep ground in the rest but country flat.	0.28 0.19 0.37 0.49	26th June 1913. 25th October 1910. 29th July 1919. 6th August 1914.	.. The maximum run-off assumed for the design of the waste weir is $\frac{1}{2}$ inch.	
	0.641	24th July 1905		
	0.30 0.70	27th June 1913. 5th August 1914.		
	} Do. .. { Rocky for a small portion, murum and soil in the rest.	0.16 0.53		3rd August 1916. 20th July 1923.
1.01		6th August 1914.		
} Steep rocky hill sides murum slopes, rice field with a fair proportion of black soil fields.	0.64 0.74	16th August 1907. 20th July 1913.		
	0.62 0.76 0.79	19th July 1913. 31st July 1923. 6th August 1914.		
} Ghat Catchment .. { Rocky in the first reach, murum and steep ground in the rest.	0.35 0.62	29th July 1915. 25th July 1905		
	2.56	22nd July 1912		
} Hilly, rocky and steep .. { Murum .. {	0.25 0.66 0.38 0.28 0.73	15th August 1916. 14th August 1907. 5th August 1915. 21st August 1918. 27th July 1919.		.. Gauged by increased volume in the tank; waste weir did not over- flow.
	0.36 0.34 0.77 1.23	29th July 1915. 3rd August 1916. 20th July 1923. 25th July 1905.		
	} Ghat Catchment .. { Steep hilly country of the Ghat description with few trees.	0.69 1.21 0.32 0.37 0.32 0.48 0.49 0.60	2nd October 1910. 18th July 1913. 1st July 1915. 5th August 1916. 15th August 1916. 28th July 1921. 19th July 1923. 22nd July 1912.	
		0.84 0.33 0.42	26th October 1916. 5th August 1915. 28th September 1917.	
} Rocky, murum, black and reddish soil. Ghat Catchment ..	0.68 0.50 0.85	2nd October 1919. 5th September 1916. 24th July 1921.		
	0.75	2nd August 1909.		
} Rocky, murum, black and red- dish soil. Ghat Catchment ..	1.32 0.31 0.29 0.63 0.63 0.83 1.92	8th August 1910. 26th August 1917. 6th July 1918. 27th July 1919. 19th September 1921. 25th July 1923. 6th August 1914.		
	Do. ..			
(DECCAN CATCHMENT).				
Rocky in the first reach, murum and soil in the rest.	0.11	29th September 1917.		

STATEMENT

No.	Name of Stream.	Catchment area.	Length of Catchment area.	Discharge in cusecs.
		Sq. miles.	Miles.	DECCAN
59	Mula at Tas ..	592	51	{ 94,965 100,341 117,910 115,170
60	Bori ..	446	....	
61	Seena at Hatwalan ..	446	27	
62	Yerla at Yeralwadi ..	274	32	31,242
63	Sina River at Iron bridge (Poona-Nagar Road).	150	17	58,117
64	Parmapada Tank on the Bori River ..	117	25	37,735
65	Bural, near Wazdara, Taluka Pimpalner, Khandesh.	87	....	17,596
66	Maini Tank—Wang River—a tributary of the Yerla.	52	{ 8½ (The catchment area is 11½ miles at greatest breadth).	25,500
				7,000
				14,200
				37,000
67	Valumba Nala at point where it crosses Nagar-Dhond Road in mile No. 11.	48	12.5	22,400
68	Bori, near Tingri, Taluka Malegaon, Nasik ..	43	....	28,426
69	Odal at Khadakozath ..	38	12	64,637
70	Muchkundi Tank ..	26	7	13,596
71	Nasardi River at Nasik ..	25	12	23,693
72	Nala near Vilad Railway Station, mile 9 of Nagar-Malegaon Road.	11	3.5	{ 19,074 22,494
				11,995
73	Jamphal Nala near Songtr, Taluka Dhulla, Khandesh.	10	....	5,902
74	Sina Nala at Shendi on Nagar-Palthan Road..	9.5	6	8,104
75	Wazarya Nala near Nahalod ..	7	....	5,970
76	Banhole Nala ..	7	3½	3,235
77	Nala No. 15 on Palkhed Canal ..	2.5	2½	3,204
78	Dhomna Nala, Nasik Irrigation Division ..	1.50	1.25	2,192
79	Ekrak Tank ..	For the great	flood at Ekrak,	reference may

VII—*contd.*

Nature of Catchment.	Rate of Run-off, inches per hour.	Date of Flood.	Remarks.
(DECCAN CATCHMENT)— <i>contd.</i>			
Black and reddish soil and rocky near hills. Local Deccan Catchment .. 0.25 0.26 0.31 0.403	26th June 1913. 18th July 1914. 26th October 1916. 18th July 1889.		
Black Khalga soil, murum and rock near hills.	0.22	23rd June 1913.	
Hilly at the sides with deep black and brownish black soil in the valley between.	0.18	10th September 1916.	
Ordinary soil ..	0.60	19th August 1910 ..	Water crossed main roads, city side of bridged 9 inches in depth.
Rocky in the first reach, murum and soil in the rest.	0.17	6th October 1917.	
Local Deccan Catchment ..	0.31	Flood of 1896.	
....	0.70	23rd and 24th Sept. 1874.	Water rose to 4.5 feet above crest of weir.
....	0.42	22nd September 1885.	
Fan-shaped catchment, fringed on one side by hills standing about 800 feet above tank level. Soil principally of the black Deccan variety.	1.11	October 1889 ..	This very extraordinary flood is the greatest of which anything is known. It topped the waste weir by 6 feet.
....	0.66	12th September 1899 ..	This flood rose 3.9 feet above wastewell.
Most in murum not Ghat Catchment 2,200 feet above sea level.	0.91	31st August 1910 ..	This flood rose 2 or 3 feet higher, in Walki village 3½ miles below roads, than ever previously and washed away 20 or more houses and damaged the Police Lines.
Local Deccan Catchment ..	2.34	Flood of 1896.	
Murum, red and black soil ..	0.55	12th September 1916.	Greatest height was 15.95 feet, giving mean area of 2,214 sq. feet.
Partially hilly ..	1.41	2nd November 1916 ..	The discharge given is for the highest flood.
Murum, earth, etc. 1.18 1.39	13th June 1900. 1st October 1910.		
Ordinary soil (small hillocks) ..	1.00	19th September 1910 ..	The Camp of R. D. Fusiliers was washed away.
Local Deccan Catchment ..	0.02	Flood of 1896.	
Basin-shaped with hills 500 feet. ..	1.30	31st August 1910 ..	The flood damaged a large part of Shendi village which had not before been reached by a flood. The discharge of this flood is estimated, and as such is an approximate figure.
....	0.79	27th June 1914 ..	
Murum, black and reddish soil ..	0.72	6th September 1916.	
Black soil and murum ..	1.98	13th June 1909.	
Hilly and flat country with rock, murum and soil at surface.	2.26	14th June 1908.	
be made to the statement on page 57.			

STATEMENT

No.	Name of Stream.	Catchment area.	Length of Catchment area.	Discharge in cusecs.
		Sq. miles.	Miles.	GODAVARI
80	Deo Nala at Aqueduct No. 3 on the Godavari Right Bank Canal.	135	24	49,555
81	Kolgaon Nala at Aqueduct No. 7 on the Godavari Right Bank Canal.	140	18.5	65,976
82	Kat Nala at Aqueduct No. 15	45	8	13,210
83	Dambar Nala at Aqueduct No. 4 on the Godavari Right Bank Canal.	20	7	35,062
84	Nala at mile 19—684 feet of the Godavari Right Bank Canal.	2.5	1.5	2,025
				GODAVARI
85	Nala No. 47 at mile 47—798 feet, Aqueduct No. 23 on Godavari Left Bank Canal.	72.75	17.5	47,812
86	Nala No. 26 at mile 24—2,837 feet, Aqueduct No. 12 on Godavari Left Bank Canal.	35.5	15	14,233
87	Nala No. 2 mile 1—1,300 feet, Culvert No. 17B on Godavari Left Bank Canal.	12.8	6.25	16,203
88	Nala No. 32	0.4	1	762
89	Nala No. 39	1	1.5	1,980
				PRAVARA
90	Lendi Nala at mile 4 of Pravara Left Bank Canal.	8	5	7,450
91	Nala No. 37	0.06	1.5	380.3

VII—concl'd.

Nature of Catchment.	Rate of Run-off, inches per hour.	Date of Flood.	Remarks.
RIGHT BANK CANAL.			
Ordinary Deccan, rises in fort hills.	0.57	1st October 1910.	
Ordinary flat, Deccan plain catchment, Nala rises in fort hills.	0.93	Do.	
Soil and soft murum below ..	0.45	23rd June 1915.	
Flat and devoid of trees, red soil and murum on surface.	2.70	1st October 1910.	
Flat cultivated land of light soil with murum near surface.	1.64	12th June 1910.	
LEFT BANK CANAL.			
Ordinary Deccan catchment, rising in small hills.	1.02	1st October 1910.	
Mostly black soil, rises in fort hills near Manmad.	0.02	Do.	
Mostly black soil, rises in small hills near Vinohur.	....	Do.	
Soil on surface	2.08	26th June 1913.	
Do.	3.1	22nd June 1913.	
LEFT BANK CANAL.			
Soil	1.44	28th September 1910.	
Soil and murum below ..	0.61	23rd June 1913.	

ADDENDA TO STATEMENT VII.

AHMEDABAD DIVISION.

Description of the flood which occurred on the 3rd August 1909 on the Hathmati River at Himatnagar (Ahmednagar) in the Idar State.

The maximum intensity of the flood at the weir on the Hathmati River at Himatnagar (Ahmednagar) in the Idar State is calculated as 158,112 cusecs.

The length of weir 1,040 feet.

Height of water above crest—

Upstream 12·50 feet.

Downstream 5·75 feet.

Velocity of approach 6 feet per second.

The corresponding (maximum) rate of run-off per hour from the catchment is 0·467 inch.

The catchment area is 524 sq. miles.

The greatest length of the catchment area is .. 40 miles.

The catchment is both hilly and woody.

The rainfall measured at the weir site was 7 inches in 14 hours and at the centre of the catchment 10 inches. The rainfall was probably greater on the hills.

ADDENDA TO STATEMENT VII—*contd.*

SHOLAPUR DIVISION.

Statement of discharges from the Catchment of the Ekruk Tank as observed in September 1872.

Time of observation.	Level of water surface.	Quantity impounded between these levels in c. ft.	Quantity discharged from the tank over two waste weirs.*	The total in-flow into the tank during period (total of columns 3 and 4).
1	2	3	4	5
19th September 3 P. M.	R. L. 203·00	190,536,000	....	190,536,000
20th " 4 A. M.	" 204·00	404,160,000	5,760,000	409,920,000
" " 6 A. M.	" 206·00	439,944,000	124,200,000	564,144,000
" " 4 P. M.	" 208·00	1,489,536,000	440,506,800	1,930,132,800
" " 10 P. M.	" 214·00			

Time of observation.	The length of time.	Catchment area of tank.	Run-off in inches per hour over the catchment.	Remarks.
	6	7	8	9
19th September 3 P. M.	8 hours.	150 Square Miles.	·064	
20th " 4 A. M.	2 "		·553	
" " 6 A. M.	10 "		·153	
" " 4 P. M.	6 "		870	
" " 10 P. M.				

* The discharge is assumed to be mean of the discharge at two levels.

ADDENDA TO STATEMENT VII—*concll.**Mutta Canal*~~NIRA LEFT BANK CANAL DIVISION.~~

*Statement of discharges from the Catchment of Lake Fife as observed
on 24th July 1905.*

(Area 196 sq. miles.)

Hour of observation.	Height of water in the tank above sills of outlet sluices.	Discharge from the waste weir at the hour of observation.	Mean discharge.	Discharge necessary to produce the rise of water in the tank at a uniform rate.	Total average discharge.	Remarks.
1	2	3	4	5	6	7
	Feet.	Cusecs.	Cusecs.	Cusecs.	Cusecs.	
2 p.m.	32.35	48,250				*As the rate of rise must have been high in the beginning of the hour, the discharge could not have been less than 48,250 + 29,081 = 77,340 cusecs.
3 p.m.	33.00	50,118	52,188	29,181	*81,270	
4 p.m.	33.35	60,563	58,330	15,747	74,077	
5 p.m.	33.60	63,793	62,178	11,300	73,478	
6 p.m.	33.85	66,850	65,321	11,318	76,640	

DHARWAR IRRIGATION DIVISION.

*Statement of discharges from the Catchment of the Dhupdal Reservoir
as observed on the 5th August 1914.*

(Area of Catchment 1,080 sq. miles.)

Hour of observation.	Height of water in the tank above sills of under sluices.	Discharges over the weir and through the under-sluices at the hour of observation.	Mean discharge.	Discharge necessary to produce the rise of water in the tank at a uniform rate.	Total average discharge.	Remarks.
1	2	3	4	5	6	7
	Feet.	Cusecs.	Cusecs.	Cusecs.	Cusecs.	
6 a.m.	27.70	140,797				
			148,657	1,097	150,354	
7 a.m.	27.80	150,518				
			153,362	2,546	155,908	
12 a.m.	27.95	156,205				
			157,158	1,273	158,431	
2 p.m.	28.00	158,111				
			160,111	2,715	162,826	
4 p.m.	28.10	162,111				

STATEMENT VIII.

Observed Deposit of Silt in Tanks.

Name of Tank.	Year.	Catchment area.	Original capacity.	Total silt deposit since construction.	Number of years since construction.	Rate of total deposit in million cubic feet per square mile per year.	Rate of deposit in million cubic feet per square mile for the year.	Remarks.
1	2	3	4	5	6	7	8	9
Muchkund Tank.	1900	26	703.50	M. cft. 57.85	22	0.10	..	Rate of silt in g since construction of the tank till 1906 was... 10 From 1906 to 1910... 056 From 1910 to 1924-25... 02 Deposit up to 1921-22 = 196.18 M. cft. Deposit up to 1923-24 = 166.42 M. cft. i.e., 29.76 M. cft. washed away. Deposit up to 1924-25 = 213.36 M. cft. i.e., 46.94 M. cft. deposited in one year.
	1910			63.69	26	0.094	..	
	1924-25			113.70	41	0.10	1.02	
G o k a k Basin.	1905	1,080	907.182 up to R. L. 2008, the crest of the permanent weir.	14.19	14	0.001	0.002*	The first improvements to this old tank were carried out in 1876. The capacity was calculated in 1896 and found to be 114.18 M. cft.
	1909			155.079	18	0.008	..	
	1910			173.50	19	0.0085	0.0171	
	1911			189.30	20	0.0088	0.0146	
	1912			207.07	21	0.0092	0.0172	
	1916			\$189.97†	25	\$0.007036	\$.4	
	1917			\$228.71	26	\$0.0081	\$0.036	
	1919			296.00	28	0.0098	† 0.0117	
	1920			102.02(a)	29	0.00613	NH	
	1921			106.18	30	0.00606	0.00385	
	1923-24			166.42(b)	32	0.0048	0.0048	
	1924-25			213.36	33	0.006	0.043	
	1896 to 1912			15.71	36		‡ 0.0229	
	1912 to 1914			18.43	38		‡ 0.0316	
	1914 to 1923			20.08	47		‡ 0.0042	
D a m b a l Tank.	1923-24			20.22	48		‡ 0.0033	
	1900 to 1912	43	114.18	5.54	31		‡ 0.206	The first improvements to this old tank were carried out in 1878. The capacity was calculated in 1909 and found to be 43.20 M. cft.
	1912 to 1914			6.27	36		‡ 0.0584	
	1914 to 1923			7.06	45		‡ 0.014	
	1923-24			7.32	46		‡ 0.042	
	1900 to 1912							
M a v i n k o p Tank.	1914 to 1923	6.25	43.20					
	1923-24							

Note.—For the figures of silt deposits in Maini, Damabal, Asundi, Pingli and Keizeri Tanks, prior to 1906, reference may be made to the Statement printed at page 12 of the Report of 1906.

* Calculated on the silt deposited during 1903-04 and 1904-05.

† The difference between the total silt deposit till 1912 and that till 1916 is due to the fact that 18.00 M. cft. of silt was washed away from 1912 to 1916.

‡ This quantity cannot be ascertained as the observations have been made after 4 years since they were last undertaken.

§ Results reported not reliable.

¶ Average deposit per year per square mile or catchment since 1912. Figures for the years 1916 and 1917 are reported to be unreliable. Therefore those for the year 1912 have been taken in calculating this figure.

(a) The difference between the figures of the total silt deposit till 1919 and 1920 is due to the fact that 104.58 M. cft. of silt was washed away in 1920, and this gives a rate of .097 M. cft. per square mile for the year.

** Calculated from the year 1890 to 1923.

†† Calculated from the year 1909.

‡‡ For the periods mentioned in Column 2.

(b) The difference between the total silt deposit till 1921 and that till 1923-24 was due to the fact that 29.76 M. cft. silt was washed away during the period of two years.

Name of Tank.	Year.	Catchment area.	Original capacity.	Total silt deposit since construction.	Number of years since construction.	Rate of total deposit in million cubic feet per square mile per year.	Rate of deposit in million cubic feet per square mile for the year.	Remarks.
1	2	3	4	5	6	7	8	9
Ekruk Tank.	1870	Sq. miles 159	M. cft. 3,162.18	M. cft. ....	..	....		Work on the Ekruk tank was taken in hand in December 1866 and the dam was closed in December 1869. For silt deposit the year of completion is taken 1870. Net capacity of the tank is 2,616.63 as found out by actual survey of the tank in the year 1923. No survey was made for observing silt deposit before 1923 nor has it been possible to do so after 1923 to date since there has usually been a large amount of water in the tank during the period 1924-26. The Koregaon tank was taken in possession of P. W. D. in 1886 after improvements. The capacity was calculated in 1903 and found to be 104.76 M. cft. The result of the recent silt survey not being ready the old figure of net contents, viz., 84.85 M. cft. was reported in the comparative statement of dimensions and cost of storage works submitted by the Superintendent Engineer, Central Circle, under his No. 6004, dated 17th August 1925. After the survey in 1925 the net capacity was found to be 83.47 M. cft.
	1923			545.65	53	0.6475		
Koregaon Tank.	1908 to 1920 to 1925	.7	104.76					From 1920 to 1925 was 0.251 M.cft. per sq. mile per year.
			84.85	21.29	22	0.1382		

STATEMENT VIII—concl'd.

Name of Tank.	Year.	Catchment area.	Original capacity.	Total silt deposit since construction.	Number of years since construction.	Rate of total deposit in million cubic feet per square mile per year.	Rate of deposit in million cubic feet per square mile for the year.	Remarks.
1	2	3	4	5	6	7	8	9
Mayani Tank.	1891 to 1906	Sq. miles 52.00	M. cft. 188.50	M. cft. 186.58	33	0.109	0.098	The Mayani tank was constructed in 1873 and brought into operation during 1875-76. Improvements were carried out in 1891. The capacity in 1906 was 112 M. cft. The F. S. Z. was raised by four ft. from 2,300.52 to 2,304.52 in the year 1906 when the contents of the tank were increased from 112.00 M. cft. to 185.00 M. cft. and in 1914 the capacity was 214.900 M. cft. In 1924 the capacity was 75.000 M. cft.
	1906 to 1914		185.00				0.169	
	1914 to 1924		114.90				0.077	
Nehr Tank	1880 to 1924		489.77	2.97	44	0.081		The capacity of the Nehr tank in 1924 was 406.80 M. cft.

STATEMENT IX.

*Statement showing the results of observations on evaporation
for the year 1925-26.*

Name of tank.	Year and month.	Number of days on which observations were taken.	Daily average evaporation in feet.	Remarks.
1	2	3	4	5
Gokak Canal 1st Section and storage works at Dhupdal, Dharwar Irrigation Division.	May 1925	31	0.034	On account of rains observations could not be taken.
	June 1925	..	..	
	July 1925	..	..	
	August 1925	..	..	
	September 1925	..	..	Observations for evaporation were made as usual by means of the iron tank.
	October 1925	20	0.01	
	November 1925	24	0.01	
	December 1925	28	0.019	
	January 1926	28	0.02	
	February 1926	28	0.021	
	March 1926	30	0.020	
	April 1926	30	0.020	
Muchkundl Tank, Bijapur Division.	May 1925	16	0.02	Periods were selected in each month when there was no inflow or sluice discharge. The fall in water level during these periods was noted from which the daily rate of evaporation was calculated.
	June 1925	12	0.03	
	July 1925	9	0.04	
	August 1925	19	0.03	
	September 1925	11	0.028	
	October 1925	25	0.03	
	November 1925	7	0.04	
	December 1925	12	0.024	
	January 1926	12	0.017	
	February 1926	..	..	
	March 1926	..	..	The tank was dry.
	April 1926	..	..	

STATEMENT IX.—*contd.*

Name of tank.	Year and month.	Date.	Number of days.	Total loss in feet.	Average loss per day in feet.	Remarks.
1	2	3	4	5	6	7
Ekruk Tank*..	May 1925 ..	6th to 9th ..	3	0·07	0·023	Results unreliable.
	June 1925 ..	15th to 18th ..	3	0·05	0·017	
	July 1925 ..	23rd to 26th ..	3	0·03	0·01	
	August 1925 ..	12th to 15th ..	3	0·03	0·01	
	September 1925.	4th to 7th ..	3	0·03	0·01	
	October 1925 ..	16th to 22th ..	3	0·03	0·01	
	November 1925.	24th to 27th ..	3	0·03	0·01	
	December 1925.	23rd to 26th ..	3	0·03	0·01	
	January 1926 ..	16th to 19th ..	3	0·04	0·013	
	February 1926..	10th to 13th ..	3	0·04	0·0133	
	March 1926 ..	15th to 21st ..	3	0·05	0·016	
	April 1926 ..	15th to 18th ..	3	0·06	0·02	
Psthri Tank*..	May 1925 ..	26th to 29th ..	3	0·07	0·023	
	June 1925 ..	16th to 19th ..	3	0·0	0·02	
	July 1925 ..	13th to 16th ..	3	0·06	0·02	
	August 1925 ..	23rd to 26th ..	3	0·01	0·003	
	September 1925.	14th to 17th ..	3	0·045	0·015	
	October 1925 ..	20th to 23rd ..	3	0·02	0·006	
	November 1925 .	16th to 19th ..	3	0·04	0·013	
	December 1925..	16th to 19th ..	3	0·03	0·010	
	January 1926 ..	16th to 19th ..	3	0·045	0·015	
	February 1926..	15th to 18th ..	3	0·04	0·013	
	March 1926 ..	16th to 19th ..	3	0·03	0·01	
	April 1926 ..	14th to 17th ..	3	0·045	0·015	

* Loss due to evaporation only observed in the iron tank 6' x 6' which is suspended and kept floating in the tank.

STATEMENT IX—*contd.*

Name of tank	Year and month.	Date.	Number of days.	Total loss in feet.	Average loss per day in feet.	Remarks.
1	2	3	4	5	6	7
Ashti Tank* ..	May 1925 ..	19th to 22nd ..	3	0.110	0.037	No observations were taken owing to rain.
	June 1925 ..	16th to 19th ..	3	0.050	0.017	
	July 1925 ..	.....	..	..	..	
	August 1925 ..	22nd to 25th ..	3	0.05	0.017	
	September 1925 ..	14th to 17th ..	3	0.05	0.017	
	October 1925 ..	18th to 21st ..	3	0.06	0.02	No observations taken as there was continuous drizzling and the sky was cloudy.
	November 1925 ..	14th to 17th ..	3	0.06	0.02	
	December 1925 ..	11th to 14th ..	3	0.06	0.02	
	January 1926 ..	13th to 16th ..	3	0.05	0.017	
	February 1926 ..	16th to 19th ..	3	0.05	0.017	
	March 1926 ..	17th to 20th ..	3	0.08	0.027	
	April 1926 ..	17th to 20th ..	3	0.08	0.027	
	May 1925 ..	17th to 20th ..	3	0.078	0.026	
	June 1925 ..	.....	..	..	..	
	July 1925 ..	.....	..	..	..	
	August 1925 ..	.....	..	..	..	
Mukti Tank* ..	May 1925 ..	17th to 20th ..	3	0.078	0.026	No observations taken as there was continuous drizzling and the sky was cloudy.
	June 1925 ..	.....	..	..	..	
	July 1925 ..	.....	..	..	..	
	August 1925 ..	.....	..	..	..	

* Loss due to evaporation only observed in the iron tank 6' x 6' which is suspended and kept floating in the tank.

STATEMENT IX—*contd.*

Name of tank.	Year and month.	Date.	Number of days.	Total loss in feet.	Average loss per day in feet.	Remarks.
1	2	3	4	5	6	7
Mukti Tank — <i>concl'd</i> ;	September 1925.	27th to 30th ..	3	0'051	0'017	No observations could be made owing to rain.
	October 1925 ..	21st to 24th ..	3	0'051	0'017	
	November 1925 .	27th to 30th ..	3	0'047	0'016	
	December 1925 ..	....	..	..	..	
	January 1926 ..	22nd to 25th ..	3	0'055	0'018	
	February 1926 ..	24th to 27th ..	3	0'057	0'019	Rain fell during observations and the tank received replenishment. The results being unreliable have not been worked out.
	March 1926 ..	28th to 31st ..	3	0'063	0'021	
	April 1926 ..	17th to 20th ..	3	0'072	0'024	
	May 1925 ..	19th to 23rd ..	4	0'157	0'039	
	June 1925 ..	26th to 30th ..	4	0'117	0'029	
	July 1925 ..	20th to 24th ..	4	0'064	0'016	
	August 1925 ..	21st to 25th ..	..	..	..	
	September 1925	14th to 18th ..	4	0'089	0'022	
	October 1925 ..	5th to 9th ..	4	0'004	0'023	
Mhaswa Tank.*	November 1925.	15th to 19th ..	..	..	..	Observations could not be made owing to rain.
	December 1925.	22nd to 26th ..	4	0'050	0'012	
	January 1926 ..	24th to 28th ..	4	0'008	0'012	
	February 1926 ..	21st to 25th ..	4	0'040	0'010	
	March 1926 ..	22nd to 26th ..	4	0'002	0'023	
	April 1926 ..	26th to 30th ..	4	0'113	0'023	Tank filled in by water owing to waves.
	October 1925 ..	12th noon to 20th noon.	8	..	..	
	Do. ..	20th noon to 31st noon.	11	0'21	0'0190	
	Do. ..	31st Oct. noon to 1 st November noon.	10	0'15	0'0151	
	November 1925 }	1 st to 10th November noon.				
Lake Pifo at Khadakwasla.	November 1925 .	10th noon to 20th noon.	10	0'06	0'0060	

* Loss due to evaporation only observed in the iron tank 6' x 6' x 3' kept floating.

STATEMENT IX—*contd.*

Name of tank.	Year and month.	Date.	Number of days.	Total loss in feet.	Average loss per day in feet.	Remarks.
1	2	3	4	5	6	7
Lake Fife at Khadakwasia— <i>concl.</i>	November 1925	20th noon to 30th noon.	10	0.14	0.0140	
	November and December 1925	30th Nov. noon to 10th Dec. noon.	10	0.15	0.0150	
	December 1925	10th noon to 21st noon.	11	0.19	0.0175	
	December 1925 and January 1926.	21st Dec. 1925 noon to 1st Jan. 1926 noon.	11	..	..	} Tank filled in by owing water to waves.
	January 1926	1st Jan 1926 noon to 10th Jan. noon	9	..	..	
	Do. ..	10th noon to 20th noon.	10	0.15	0.0150	
	Do. ..	20th noon to 25th noon.	5	..	..	} Tank filled in by owing water to waves.
	Do. ..	25th noon to 31st noon.	6	..	..	
	January and February 1926.	31st Jan. noon to 7th Feb. noon.	7	..	..	
	February 1926	7th noon to 16th noon.	9	0.11	0.0125	
	Do. ..	16th noon to 24th noon.	8	0.12	0.0150	
	February and March 1926.	24th Feb. noon to 3rd March noon.	7	0.13	0.0180	
	March 1926 ..	3rd noon to 14th noon.	11	0.16	0.0160	
	Do. ..	14th noon to 21st noon.	7	0.18	0.0180	
	Do. ..	21st noon to 31st noon.	10	0.19	0.0190	
	March 1926 .. and April 1926	31st Mar. noon to 4th Apr. noon.	4	0.074	0.0185	
	April 1926 ..	4th noon to 14th noon.	10	..	..	} Tank filled in by owing water to waves.
	Do. ..	14th noon to 27th noon.	13	..	..	
	April 1926 and May 1926.	27th Apr. noon to 2nd May noon.	5	..	..	
Lake Whiting.*	May 1925 ..	30th April (6 p.m.) to 31st May (6 p.m.).	31	0.93	0.03000	
	June 1925 to October 1925.	.....	..	..	..	Inflow in tank.
	October 1925 and November 1925.	31st Oct. (6 p.m.) to 30th Nov. (6 p.m.).	30	0.10	0.00333	
	November 1925 and December 1925.	30th Nov. (6 p.m.) to 31st Dec. (6 p.m.).	31	0.50	0.01613	

* Loss due to evaporation only observed in the iron tank 6' x 6' x 3' kept floating.

STATEMENT IX—*contd.*

Name of tank.	Year and month.	Date and hour of observation.	Number of days.	Total loss in feet.	Average loss per day in feet.	Remarks.
1	2	3	4	5	6	7
Lake Whiting — <i>concd.</i>	December 1925 and January 1926 ..	31st December 1925 (6 p.m.) to 31st Jan. 1926 (6 p.m.).	31	0·62	0·02070	
	January 1926 and February 1926 ..	31st Jan. (6 p.m.) to 28th Feb. (6 p.m.).	28	0·84	0·03000	
	February 1926 and March 1926 ..	28th Feb (6 p.m.) to 31st Mar. (6 p.m.).	31	1·07	0·03452	
	March 1926 and April 1926 ..	31st Mar. (6 p.m.) to 30th Apr. (6 p.m.).	30	0·90	0·03000	
Lake Beale* ..	January 1926 ..	11th (9 a.m.) to 18th (9 a.m.).	7	0·13	0·019	There was 0·66" rainfall on 30th January 1926 only at Darna Dam and at other times no rainfall during the period of observations.
	Do. ..	21st (9 a.m.) to 25th (9 a.m.).	4	0·10	0·025	
	January 1926 and February 1926 ..	30th Jan. (9 a.m.) to 7th Feb. (9 a.m.).	8	0·18	0·022	
	February 1926 ..	13th (9 a.m.) to 19th (9 a.m.).	6	0·20	0·033	The tank was leaking and was under repairs during the remaining period when the observations could not be recorded.
	April 1926 ..	6th (9 a.m.) to 18th (9 a.m.).	12	0·45	0·037	
	Do. ..	24th (9 a.m.) to 30th (9 a.m.).	6	0·21	0·035	
Warhad Tank ..	May 1925 ..	11th (6 a.m.) to 14th (6 a.m.).	3	0·038	0·013	Observations for loss due to evaporation only made from the depth actually observed in the lake during the period. There was no rainfall during the period of observations. No observations were taken for other months as there was no special arrangement made for the purpose there.
	Do. ..	14th (6 a.m.) to 17th (6 a.m.).	3	0·113	0·038	
	February 1926 ..	1st (6 a.m.) to 3rd (6 p.m.).	2·5	0·034	0·014	
	Do. ..	15th (6 a.m.) to 19th (6 p.m.).	4·5	0·100	0·022	

STATEMENT

Statement showing the results of observations for the total losses including

Name of tank.	Month and year.	Date.	Number of days.	Gauge reading at commencement.	Total loss.	Average loss per day.
1	2	3	4	5	6	7
Ekruk Tank ..	May 1925 ..	6th to 9th ..	3	Feet. 1512·04	Feet. 0·09	Feet. 0·03
	June 1925 ..	15th to 18th ..	3	1510·30	0·08	0·027
	July 1925 ..	23rd to 26th ..	3	1511·95	0·03	0·017
	August 1925 ..	12th to 15th ..	3	1512·13	0·06	0·02
	September 1925 ..	4th to 7th ..	3	1513·54	0·06	0·02
	October 1925 ..	19th to 22nd ..	3	1517·50	0·07	0·023
	November 1925 ..	24th to 27th ..	3	1516·83	0·06	0·020
	December 1925 ..	23rd to 26th ..	3	1516·07	0·11	0·037
	January 1926 ..	16th to 19th ..	3	1515·32	0·07	0·028
	February 1926 ..	10th to 13th ..	3	1515·60	0·03	0·027
	March 1926 ..	18th to 21st ..	3	1514·62	0·07	0·023
	April 1926 ..	15th to 18th ..	3	1513·73	0·10	0·034
Pathri Tank ..	May 1925 ..	26th to 29th ..	3	233·70	0·12	0·04
	June 1925 ..	16th to 19th ..	3	233·10	0·11	0·037
	July 1925 ..	13th to 16th ..	3	232·47	0·11	0·11
	August 1925 ..	23rd to 26th ..	3	237·05	0·02	0·006
	September 1925 ..	14th to 17th ..	3	236·70	0·06	0·02
	October 1925 ..	20th to 23rd ..	3	239·84	0·03	0·01
	November 1925 ..	16th to 19th ..	3	238·98	0·08	0·026
	December 1925 ..	16th to 19th ..	3	237·51	0·06	0·02
	January 1926 ..	16th to 19th ..	3	235·95	0·09	0·03
	February 1926 ..	15th to 18th ..	3	238·63	0·09	0·03
	March 1926 ..	16th to 19th ..	3	234·88	0·06	0·02
	April 1926 ..	14th to 17th ..	3	234·16	0·12	0·04
Ashti Tank ..	May 1925 ..	19th to 22nd ..	3	221·07	0·12	0·04
	June 1925 ..	16th to 19th ..	3	22·11	0·06	0·02
	July 1925 ..	.... ..	..	..	..	..
	August 1925 ..	22nd to 25th ..	3	221·86	0·06	0·02
	September 1925 ..	14th to 17th ..	3	223·34	0·09	0·03

IX—*contd.**evaporation, leakage, percolation and absorption for the year 1925-26.*

Date of rainfall.	Rainfall.	Replenish- ment.	Distribution of loss.			Remarks.
			Evapora- tion.	Leakage.	Percola- tion and absorp- tion.	
8	9	10	11	12	13	14
	Inches.	Feet.	Feet.	Feet.	Feet.	
..	..	..	0·023	<i>Nil.</i>	0·004	*003 Loss by water supply to Municipality.
..	..	..	0·017	<i>Nil.</i>	0·007	*003 Do.
..	..	..	0·01	<i>Nil.</i>	0·004	*003 Do.
..	..	..	0·01	<i>Nil.</i>	0·008	*002 Do.
..	..	..	0·01	<i>Nil.</i>	0·007	*002 Do.
..	..	..	0·01	<i>Nil.</i>	0·007	*002 Loss by water supply to municipality and *0043 discharge from outlet in canal for irrigation.
..	..	..	0·01	<i>Nil.</i>	0·008	*002 Loss by water supply to Municipality.
..	..	..	0·01	<i>Nil.</i>	0·005	*002 Loss by water supply to Municipality and *017 discharge from outlet in canal for irrigation.
..	..	..	0·013	<i>Nil.</i>	0·008	*002 Loss by water supply to Municipality.
..	..	..	0·0133	<i>Nil.</i>	0·000	*0023 Loss by water supply to Municipality and *005 discharge from outlet in canal for irrigation.
..	..	..	0·016	<i>Nil.</i>	0·0045	*0025 Loss by water supply to municipality.
..	..	..	0·020	<i>Nil.</i>	0·0030	*00·5 Loss by water supply to Municipality and *00·5 discharge from outlet in canal for irrigation.
..	..	..	0·023	*0003	0·0126	*0039 Loss by water supply to Municipality.
..	..	..	0·02	*0003	0·0136	*0032 Do.
..	..	..	0·02	*0003	0·0137	*0027 Do.
..	..	..	0·003	*0004	0·0003	*0027 Do.
..	..	..	0·015	*00·4	0·0021	*0022 Do.
..	..	..	0·0080	*0004	0·0013	*0021 Do.
..	..	..	0·013	*0004	0·010	*0025 Do.
..	..	..	0·01	*0004	0·0056	*0028 Do.
..	..	..	0·015	*0004	0·0106	*0083 Do.
..	..	..	0·013	*0004	0·0120	*0031 Do.
..	..	..	9·0100	*0004	0·0075	*0020 Do.
..	..	..	0·0160	*0003	0·0227	*0080 Do.
..	..	..	0·037	<i>Nil.</i>	0·001	*002 Discharge from outlet in canal for irrigation.
..	..	..	0·017	<i>Nil.</i>	0·073	
..	..	..	..	..	..	No observations could be made owing to rain.
..	..	..	0·017	<i>Nil.</i>	0·003	
..	..	..	0·017	<i>Nil.</i>	0·003	*01 Discharge from outlet in canal for irrigation.

Results unreliable.

STATEMENT

Name of tank.	Month and year.	Date.	No. of days.	Gauge reading at commencement.	Total loss.	Average loss per day.
1	2	3	4	5	6	7
				Feet.	Feet.	Feet.
Ashai Tank —cond.	October 1925 ..	18th to 21st ..	3	230.69	.7	.023
	November 1925 ..	14th to 17th ..	3	229.76	.11	.036
	December 1925 ..	11th to 14th ..	3	228.48	.13	.043
	January 1926 ..	13th to 16th ..	3	227.52	.09	.03
	February 1926 ..	16th to 19th ..	3	226.95	.06	.02
	March 1926 ..	17th to 20th ..	3	226.24	.00	.03
	April 1926 ..	17th to 20th ..	3	225.37	.00	.03
Mukti Tank ..	May 1925 ..	17th to 20th ..	3	920.09	.10	.034
	June 1925 ..	....	..	..	..	..
	July 1925 ..	....	..	..	..	..
	August 1925 ..	....	..	..	..	..
	September 1925 ..	27th to 30th ..	3	923.20	.08	.026
	October 1925 ..	21st to 24th ..	3	922.83	.08	.027
	November 1925 ..	27th to 30th ..	3	921.02	.08	.024
	December 1925 ..	....	..	..	..	..
	January 1926 ..	22nd to 25th ..	3	914.46	.08	.026
	February 1926 ..	24th to 27th ..	3	917.10	.08	.027
	March 1926 ..	28th to 31st ..	3	918.25	.08	.026
	April 1926 ..	17th to 20th ..	3	915.67	.09	.030
	May 1925 ..	10th to 23rd ..	4	17.29	.019	.047
	June 1925 ..	26th to 30th ..	4	17.57	.14	.0350
Mhaswa Tank ..	July 1925 ..	20th to 24th ..	4	17.06	.09	.0225
	August 1925 ..	21st to 25th ..	4	..	..	..
	September 1925 ..	14th to 18th ..	4	18.05	.10	.025
	October 1925 ..	5th to 9th ..	4	17.76	.14	.035
	November 1925 ..	....	..	..	..	..
	December 1925 ..	22nd to 26th ..	4	14.14	.24	.06
	January 1926 ..	24th to 28th ..	4	14.00	.40	.10
	February 1926 ..	21st to 25th ..	4	14.26	.08	.02
	March 1926 ..	22nd to 26th ..	4	13.47	.12	.03
	April 1926 ..	26th to 30th ..	4	12.17	.021	.052

IX—*contd.*

Date of rainfall.	Rainfall.	Replenish- ment.	Distribution of loss.			Remarks.
			Evapora- tion.	Leakage.	Percol- ation and absorp- tion.	
8	9	10	11	12	13	14
	Inches.	Feet.	Feet.	Feet.	Feet.	
..	..	..	.02	Nil.	.003	
..	..	..	.02	Nil.	.0027	*0134 Discharge from outlet in canal for irrigation.
..	..	..	.02	.0004	.0005	*0107 Do.
..	..	..	.017	.0004	.0077	*0040 Do.
..	..	..	.017	.00017	.00205	
..	..	..	.027	.00019	.00373	
..	..	..	.027	.000036	.001528	*001395 Discharge from outlet in canal for irrigation.
..	..	..	.026	.002	.006	
..	..	..	..	..	..	No observations were taken as there was continuous drizzling and the sky was cloudy.
..	..	..	..	..	..	
..	..	..	..	..	..	
..	..	..	.017	.005	.004	
..	..	..	.017	.006	.001	
..	..	..	.016	.004	.004	
..	..	..	..	..	..	Observations could not be made owing to rain.
..	..	..	.018	.003	.005	
..	..	..	.019	.003	.005	
..	..	..	.021	.002	.003	
..	..	..	.024	.001	.005	
..	..	..	.039	.00042	.00708	
..	..	..	.020	.01009	.00500	
..	..	..	.016	.00096	.00554	
..	..	..	..	..	..	Rain fell during the observations and the tank received replenishment, the results being thus unreliable have not been worked out.
..	..	..	.022	.00072	.00208	
..	..	..	.023	.00085	.00505	*0050 discharge from outlet in canal for irrigation.
..	..	..	..	..	..	Observations could not be made owing to rain.
..	..	..	.012	.0012	.0131	*0332 Discharge from outlet in canal for irrigation.
..	..	..	.002	.001	.001	*006 Do.
..	..	..	.010	.0007	.0003	*0086 Do.
..	..	..	.023	.0006	.0004	-
..	..	..	.028	.00075	.0140	*0086 Do.

STATEMENT

Name of tank.	Month and year.	Date.	No. of days.	Gauge readings at commencement.	Total loss.
1	2	3	4	5	6
				Feet.	Feet.
Lake Whiting	May 1925	30th April 1925 (6 p.m.) to 31st May 1925 (6 p.m.).	31	55'55	1'02
	June 1925 July 1925 August 1925 September 1925 October 1925	.....	..	..	..
	November 1925	31st October 1925 (6 p.m.) to 30th Nov. 1925 (6 p.m.)	30	103'90	0'11
	December 1925	30th Nov. 1925 (6 p.m.) to 31st Dec. 1925 (6 p.m.).	31	103'50	0'03
	January 1926	31st Dec. 1925 (6 p.m.) to 31st Jan. 1926 (6 p.m.).	31	95'20	0'04
	February 1926	31st Jan. 1926 (6 p.m.) to 28th Feb. 1926 (6 p.m.).	28	89'10	0'98
	March 1926	28th Feb. 1926 (6 p.m.) to 31st Mar. 1926 (6 p.m.).	31	84'90	1'26
	April 1926	31st Mar. 1926 (6 p.m.) to 30th April 1926 (6 p.m.).	30	79'70	1'09
Mhaswad Tank	May 1925				
	June 1925				
	July 1925	.....	..	..	..
	August 1925				
	September 1925				
	October 1925	15th October 1925 (8 a.m.) to 18th November 1925 (8 a.m.).	32	15'00	1'64
	November 1925				
	December 1925	.....	..	..	..
	January 1926	10th Jan. 1926 (8 a.m.) to 22nd Jan. 1926 (8 a.m.).	12	5'80	1'55
	February 1926				
	March 1926	.....	..	..	..
	April 1926				

* Observation could not be made.

† Observations could not be made.

‡ Observations could not be made.

IX—concl'd.

Average loss per day.	Date of rainfall.	Rainfall.	Replenishment.	Distribution of loss.		
				Evaporation.	Leakage.	Percolation and absorption.
7	8	9	10	11	12	13
Feet.		Inches.	Feet.	Feet.	Feet.	Feet.
0'03290	5th May 1925. 7th May 1925. 25th May 1925. 20th May 1925.	0'02 0'20 0'45 0'48	Nil.	0'03000	0'00024	0'00206
....						
0'00366	11th Nov. 1925. 12th Nov. 1925. 13th Nov. 1925. 14th Nov. 1925.	0'17 0'18 0'20 1'77	Nil.	0'00333	0'00011	0'00022
0'02032	....	....	Nil.	0'01613	0'00035	0'00394
0'02064	4th Jan. 1926.	0'12	Nil.	0'02000	0'00032	0'00032
0'03500	....	....	Nil.	0'03000	0'00033	0'00467
0'04064	....	....	Nil.	0'03452	0'00040	0'00573
0'03033	....	....	Nil.	0'03000	0'00031	0'00662
....						
0'0512	10th to 14th Nov. 1925.	0'91	Nil.	0'0100	0'0412	As the observation for evaporation from an iron tank could not be made since the old tank was to be replaced by a new one the rate of evaporation at 0'01 per diem is only an assumption.
....						
0'1292	....	....	Nil.	0'0100	0'1102	
..						

as there was inflow in the tank and rains.

owing to monsoon.

as the tank was almost empty.

STATEMENT

Statement of Silt Observations made on some of the Rivers in the

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
1	Krishna at Kudchi Railway Bridge.	18th July 1925	Left Bank	..	22 0
		Do.	Centre	..	42 0
		Do.	Do.	..	42 0
		Do.	Do.	..	42 0
		Do.	Right Bank	..	32 0
2	Do.	30th July 1925	Left Bank	..	20 0
		Do.	Centre	..	30 0
		Do.	Do.	..	30 0
		Do.	Do.	..	30 0
		Do.	Right Bank	..	21 0
3	Do.	2nd August 1925	Left Bank	..	17 0
		Do.	Centre	..	29 0
		Do.	Do.	..	29 0
		Do.	Do.	..	29 0
		Do.	Right Bank	..	18 0
4	Krishna at Kusna	30th June 1925	Left Bank	.. 28'00	40 0
		Do.	Centre	.. 38'00	45 0
		Do.	Do.	.. 38'00	45 0
		Do.	Do.	.. 38'00	45 0
		Do.	Right Bank	.. 38'00	25 0
5	Do.	12th July 1925	Left Bank	.. 28'00	32 0
		Do.	Centre	.. 28'00	34 0
		Do.	Do.	.. 28'00	34 0
		Do.	Do.	.. 28'00	34 0
		Do.	Right Bank	.. 28'00	30 0
6	Do.	9th Aug. 1925	Left Bank	.. 28'40	33 0
		Do.	Centre	.. 28'40	35 0
		Do.	Do.	.. 28'40	35 0
		Do.	Do.	.. 28'40	35 0
		Do.	Right Bank	.. 28'40	30 0

* Velocity observations

Note.—The figure of weight of dry silt given in column 6 for the centre station is the

No. X.

Deccan Irrigation Circle, during the monsoon of the year 1925-26.

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10.
Ft. in.		Grains.	
11 0	..	1'34	Left Bank. Middepth specimen.
0 0	•	1'28	Centre. Top specimen.
21 0	•		Do. Middepth specimen.
41 0	•		Do. Bottom specimen.
16 0	•	1'36	Right Bank. Middepth specimen.
10 0	4'20	1'31	Left Bank. Middepth specimen.
0 0	5'00	1'42	Centre. Top specimen.
15 0	5'00		Do. Middepth specimen.
20 0	5'00		Do. Bottom specimen.
10 0	4'55	1'77	Right Bank. Middepth specimen.
8 0	4'03	0'77	Left Bank. Middepth specimen.
0 0	4'00	0'47	Centre. Top specimen.
14 0	4'00		Do. Middepth specimen.
28 0	4'00		Do. Bottom specimen.
9 0	4'20	0'48	Right Bank. Middepth specimen.
20 0	5'71	1'36	Left Bank. Middepth specimen.
0 0	6'06	1'30	Centre. Top specimen.
22 0	6'06		Do. Middepth specimen.
44 0	6'06		Do. Bottom specimen.
12 0	5'55	2'52	Right Bank. Middepth specimen.
10 0	5'20	2'23	Left Bank. Middepth specimen.
0 0	4'00	1'70	Centre. Top specimen.
17 0	6'00		Do. Middepth specimen.
38 0	6'06		Do. Bottom specimen.
16 0	5'71	1'82	Right Bank. Middepth specimen.
10 0	5'00	1'27	Left Bank. Middepth specimen.
0 0	5'71	1'49	Centre. Top specimen.
17 0	5'71		Do. Middepth specimen.
34 0	5'71		Do. Bottom specimen.
15 0	5'71	2'43	Right Bank. Middepth specimen.

could not be taken.

average of the three samples trapped at top, middepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
7	Krishna at Kusnal ..	22nd Aug. 1925 ..	Left Bank ..	30' 80	35 0
		Do. ..	Centre ..	30' 80	38 0
		Do. ..	Do. ..	30' 80	38 0
		Do. ..	Do. ..	30' 80	38 0
		Do. ..	Right Bank ..	30' 80	25 0
8	Do. ..	24th Aug. 1925 ..	Left Bank ..	31' 30	35 0
		Do. ..	Centre ..	31' 30	37 0
		Do. ..	Do. ..	31' 30	37 0
		Do. ..	Do. ..	31' 30	37 0
		Do. ..	Right Bank ..	31' 30	23 0
9	Do. ..	20th Sept. 1925 ..	Left Bank ..	11' 50	17 0
		Do. ..	Centre ..	11' 50	18 0
		Do. ..	Do. ..	11' 50	18 0
		Do. ..	Do. ..	11' 50	18 0
		Do. ..	Right Bank ..	11' 50	19 0
10	Do. ..	29th Sept. 1925 ..	Left Bank ..	10' 60	16 0
		Do. ..	Centre ..	10' 60	17 0
		Do. ..	Do. ..	10' 60	17 0
		Do. ..	Do. ..	10' 60	17 0
		Do. ..	Right Bank ..	10' 60	18 0
11	Nira at M. & S. M. Railway bridge.	28th June 1925 ..	Left Bank ..	..	5 0
		Do. ..	Centre ..	..	2 0
		Do. ..	Do. ..	..	2 0
		Do. ..	Do. ..	..	2 0
		Do. ..	Right Bank ..	..	6 0
12	Do. ..	14th July 1925 ..	Left Bank ..	..	5 0
		Do. ..	Centre ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Right Bank ..	..	6 0
13	Nira at Shirwal ..	31st July 1925 ..	Left Bank ..	..	5 0
		Do. ..	Centre ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Right Bank ..	..	3 0

etc. The figure of weight of dry silt given in column 9 for the centre station is the

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
17 6	5' 00	1' 29	Left Bank. Middepth specimen.
0 6	6' 25	1' 41	Centre. Top specimen.
19 0	6' 25		Do. Middepth specimen.
37 0	6' 25		Do. Bottom specimen.
12 6	5' 71	1' 23	Right Bank. Middepth specimen.
17 6	4' 70	0' 74	Left Bank. Middepth specimen.
0 6	5' 71	0' 73	Centre. Top specimen.
18 6	5' 71		Do. Middepth specimen.
36 0	5' 71		Do. Bottom specimen.
14 6	5' 00	0' 96	Right Bank. Middepth specimen.
8 6	2' 35	24' 48	Left Bank. Middepth specimen.
0 6	2' 66	14' 28	Centre. Top specimen.
9 0	2' 66		Do. Middepth specimen.
17 0	2' 66		Do. Bottom specimen.
9 6	2' 50	23' 72	Right Bank. Middepth specimen.
8 0	2' 22	53' 00	Left Bank. Middepth specimen.
0 6	2' 56	12' 27	Centre. Top specimen.
8 0	2' 56		Do. Middepth specimen.
16 0	2' 56		Do. Bottom specimen.
9 0	2' 35	12' 64	Right Bank. Middepth specimen.
2 6	3' 47	3' 35	Left Bank. Middepth specimen.
0 6	3' 47	1' 20	Centre. Top specimen.
1 0	3' 47		Do. Middepth specimen.
1 0	3' 47		Do. Bottom specimen.
3 0	3' 47	1' 05	Right Bank. Middepth specimen.
2 6	5' 20	2' 10	Left Bank. Middepth specimen.
0 6	5' 20	2' 80	Centre. Top specimen.
4 6	5' 20		Do. Middepth specimen.
8 0	5' 20		Do. Bottom specimen.
3 0	5' 20	1' 84	Right Bank. Middepth specimen.
2 6	Not taken.	1' 69	Left Bank. Middepth specimen.
0 6		0' 84	Centre. Top specimen.
8 6			Do. Middepth specimen.
6 6			Do. Bottom specimen.
1 6		0' 39	Right Bank. Middepth specimen.

Average of the three samples trapped at top, middepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
14	Bhima at Pargaon ..	5th July 1925 ..	Left Bank ..	..	14 0
		Do. ..	Centre ..	..	22 0
		Do. ..	Do. ..	..	22 0
		Do. ..	Do. ..	..	22 0
		Do. ..	Right Bank ..	..	12 0
15	Do. ..	28th July 1925 ..	Left Bank ..	..	20 0
		Do. ..	Centre ..	..	28 0
		Do. ..	Do. ..	..	28 0
		Do. ..	Do. ..	..	28 0
		Do. ..	Right Bank ..	..	17 0
16	Do. ..	4th Aug. 1925 ..	Left Bank ..	..	15 0
		Do. ..	Centre ..	..	29 0
		Do. ..	Do. ..	..	29 0
		Do. ..	Do. ..	..	29 0
		Do. ..	Right Bank ..	..	12 0
17	Do. ..	15th Aug. 1925 ..	Left Bank ..	..	12 0
		Do. ..	Centre ..	..	28 0
		Do. ..	Do. ..	..	28 0
		Do. ..	Do. ..	..	28 0
		Do. ..	Right Bank ..	..	10 6
18	Bhima at Koregaon.	30th June 1925 ..	Left Bank ..	..	6 6
		Do. ..	Centre ..	..	10 0
		Do. ..	Do. ..	..	10 0
		Do. ..	Do. ..	..	10 0
		Do. ..	Right Bank ..	..	5 0
19	Do. ..	11th July 1925 ..	Left Bank ..	..	7 0
		Do. ..	Centre ..	..	11 0
		Do. ..	Do. ..	..	11 0
		Do. ..	Do. ..	..	11 0
		Do. ..	Right Bank ..	..	5 6
20	Do. ..	13th July 1925 ..	Left Bank ..	..	7 6
		Do. ..	Centre ..	..	11 0
		Do. ..	Do. ..	..	11 0
		Do. ..	Do. ..	..	11 0
		Do. ..	Right Bank ..	..	6 4

Note.—The figure of weight of dry silt given in column 9 for the centre station is the

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
7 0	2' 07	2' 61	Left Bank. Middepth specimen.
0 6	2' 50	3' 83	Centre. Top specimen.
11 0	2' 50		Do. Middepth specimen.
21 0	2' 50		Do. Bottom specimen.
6 0	2' 50	5' 41	Right Bank. Middepth specimen.
10 0	4' 30	2' 37	Left Bank. Middepth specimen.
0 6	5' 00	10' 76	Centre. Top specimen.
14 0	5' 00		Do. Middepth specimen.
27 0	5' 00		Do. Bottom specimen.
8 6	4' 00	5' 02	Right Bank. Middepth specimen.
7 6	2' 82	3' 72	Left Bank. Middepth specimen.
0 6	3' 02	16' 11	Centre. Top specimen.
14 6	3' 02		Do. Middepth specimen.
23 0	5' 02		Do. Bottom specimen.
6 0	2' 92	1' 03	Right Bank. Middepth specimen.
6 0	3' 75	2' 34	Left Bank. Middepth specimen.
0 6	4' 00	15' 00	Centre. Top specimen.
14 0	4' 00		Do. Middepth specimen.
27 0	4' 00		Do. Bottom specimen.
5 3	4' 00	1' 40	Right Bank. Middepth specimen.
3 3	8' 40	7' 03	Left Bank. Middepth specimen.
0 6	2' 95	14' 41	Centre. Top specimen.
5 0	2' 95		Do. Middepth specimen.
9 0	2' 95		Do. Bottom specimen.
2 6	3' 82	14' 43	Right Bank. Middepth specimen.
3 6	3' 96	13' 67	Left Bank. Middepth specimen.
0 6	6' 02	5' 99	Centre. Top specimen.
6 6	6' 02		Do. Middepth specimen.
10 0	6' 02		Do. Bottom specimen.
2 9	3' 12	10' 03	Right Bank. Middepth specimen.
3 9	3' 25	6' 96	Left Bank. Middepth specimen.
0 6	6' 77	9' 57	Centre. Top specimen.
5 6	6' 77		Do. Middepth specimen.
10 0	6' 77		Do. Bottom specimen.
8 2	2' 10	17' 45	Right Bank. Middepth specimen.

Average of the three samples trapped at top, middepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
21	Bhima at Koregaon.	14th July 1925	Left Bank	..	9 6
		Do.	Centre	..	14 4
		Do.	Do.	..	14 4
		Do.	Do.	..	14 4
		Do.	Right Bank	..	6 6
22	Do.	15th July 1925	Left Bank	..	8 8
		Do.	Centre	..	20 8
		Do.	Do.	..	20 8
		Do.	Do.	..	20 8
		Do.	Right Bank	..	9 0
23	Do.	28th July 1925	Left Bank	..	6 0
		Do.	Centre	..	9 4
		Do.	Do.	..	9 4
		Do.	Do.	..	9 4
		Do.	Right Bank	..	6 4
24	Do.	26th Aug. 1925	Left Bank	..	5 6
		Do.	Centre	..	8 0
		Do.	Do.	..	8 0
		Do.	Do.	..	8 0
		Do.	Right Bank	..	5 0
25	Do.	11th Sept. 1925	Left Bank	..	5 0
		Do.	Centre	..	6 0
		Do.	Do.	..	0 0
		Do.	Do.	..	6 0
		Do.	Right Bank	..	5 6
26	Do.	30th Sept. 1925	Left Bank	..	5 0
		Do.	Centre	..	8 0
		Do.	Do.	..	8 0
		Do.	Do.	..	8 0
		Do.	Right Bank	..	4 0
27	Do.	8th Oct. 1925	Left Bank	..	6 0
		Do.	Centre	..	5 2
		Do.	Do.	..	5 2
		Do.	Do.	..	5 2
		Do.	Right Bank	..	6 0

Note.—The figure of weight of dry silt given in column 9 for the centre station

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
4 0	4' 33	4' 77	Left Bank. Middepth specimen.
0 6	4' 51	5' 19	Centre. Top specimen.
7 2	4' 51		Do. Middepth specimen.
13 4	4' 51		Do. Bottom specimen.
8 8	3' 10	4' 91	Right Bank. Middepth specimen.
4 4	2' 50	26' 13	Left Bank. Middepth specimen.
0 6	4' 64	12' 08	Centre. Top specimen.
10 4	4' 64		Do. Middepth specimen.
10 8	4' 64		Do. Bottom specimen.
4 6	4' 06	22' 36	Right Bank. Middepth specimen.
3 0	3' 60	4' 18	Left Bank. Middepth specimen.
0 6	5' 08	6' 17	Centre. Top specimen.
4 8	5' 08		Do. Middepth specimen.
8 4	5' 08		Do. Bottom specimen.
3 2	3' 10	3' 74	Right Bank. Middepth specimen.
2 0	2' 00	6' 00	Left Bank. Middepth specimen.
0 6	2' 05	27' 02	Centre. Top specimen.
4 0	2' 05		Do. Middepth specimen.
7 0	2' 05		Do. Bottom specimen.
2 6	2' 60	3' 13	Right Bank. Middepth specimen.
2 6	1' 50	0' 83	Left Bank. Middepth specimen.
0 6	1' 58	1' 02	Centre. Top specimen.
3 0	1' 58		Do. Middepth specimen.
5 0	1' 58		Do. Bottom specimen.
2 0	1' 94	24' 75	Right Bank. Middepth specimen.
2 6	1' 15	5' 78	Left Bank. Middepth specimen.
0 6	1' 87	6' 49	Centre. Top specimen.
4 0	1' 87		Do. Middepth specimen.
7 0	1' 87		Do. Bottom specimen.
2 3	1' 60	6' 00	Right Bank. Middepth specimen.
3 0	1' 43	1' 00	Left Bank. Middepth specimen.
0 6	1' 20	10' 02	Centre. Top specimen.
2 7	1' 20		Do. Middepth specimen.
4 2	1' 20		Do. Bottom specimen.
3 0	1' 17	0' 88	Right Bank. Middepth specimen.

is the average of the three samples trapped at top, middepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
28	Bhima at Koregzon..	9th Oct. 1925	Left Bank	.. ..	5 0
	"	Do.	Centre	.. ..	6 10
	"	Do.	Do.	.. ..	6 10
	"	Do.	Do.	.. ..	6 10
	"	Do.	Right Bank	.. ..	5 2
29	Ghod at Kalamb ..	22nd June 1925	Left Bank	.. ..	3 6
	"	Do.	Centre	.. ..	4 0
	"	Do.	Do.	.. ..	4 0
	"	Do.	Do.	.. ..	4 0
	"	Do.	Right Bank	.. ..	3 0
30	Do.	24th June 1925	Left Bank	.. ..	3 6
	"	Do.	Centre	.. ..	4 0
	"	Do.	Do.	.. ..	4 0
	"	Do.	Do.	.. ..	4 0
	"	Do.	Right Bank	.. ..	3 3
31	Do.	20th June 1925	Left Bank	.. ..	7 0
	"	Do.	Centre	.. ..	8 0
	"	Do.	Do.	.. ..	8 0
	"	Do.	Do.	.. ..	8 0
	"	Do.	Right Bank	.. ..	6 0
32	Do.	11th July 1925	Left Bank	.. ..	9 0
	"	Do.	Centre	.. ..	12 0
	"	Do.	Do.	.. ..	12 0
	"	Do.	Do.	.. ..	12 0
	"	Do.	Right Bank	.. ..	8 0
33	Do.	13th July 1925	Left Bank	.. ..	11 0
	"	Do.	Centre	.. ..	14 0
	"	Do.	Do.	.. ..	14 0
	"	Do.	Do.	.. ..	14 0
	"	Do.	Right Bank	.. ..	10 6
34	Do.	16th July 1925	Left Bank	.. ..	14 6
	"	Do.	Centre	.. ..	18 0
	"	Do.	Do.	.. ..	18 0
	"	Do.	Do.	.. ..	18 0
	"	Do.	Right Bank	.. ..	13 6

Note The figure of weight of dry silt given in column 9 for the centre station

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Rt. in.		Grains.	
2 6	0'51	0'04	Left Bank. Midddepth specimen.
0 6	0'57	1'34	Centre. Top specimen.
3 5	0'57		Do. Midddepth specimen.
5 10	0'57		Do. Bottom specimen.
2 7	0'56	2'67	Right Bank. Midddepth specimen.
1 9	3'00	0'99	Left Bank. Midddepth specimen.
0 6	3'75	2'34	Centre. Top specimen.
2 0	3'75		Do. Midddepth specimen.
3 0	3'75		Do. Bottom specimen.
1 6	3'00	0'79	Right Bank. Midddepth specimen.
1 9	3'00	1'03	Left Bank. Midddepth specimen.
0 6	3'75	1'50	Centre. Top specimen.
2 0	3'75		Do. Midddepth specimen.
3 0	3'75		Do. Bottom specimen.
1 7½	8'00	0'70	Right Bank. Midddepth specimen.
3 0	4'50	2'90	Left Bank. Midddepth specimen.
0 6	5'00	3'34	Centre. Top specimen.
4 0	5'00		Do. Midddepth specimen.
7 0	5'00		Do. Bottom specimen.
2 0	4'50	1'53	Right Bank. Midddepth specimen.
4 0	5'02	1'03	Left Bank. Midddepth specimen.
0 6	7'03	1'28	Centre. Top specimen.
6 0	7'03		Do. Midddepth specimen.
11 0	7'03		Do. Bottom specimen.
3 3	5'02	1'29	Right Bank. Midddepth specimen.
5 0	6'08	5'65	Left Bank. Midddepth specimen.
0 6	7'50	8'92	Centre. Top specimen.
6 0	7'50		Do. Midddepth specimen.
13 0	7'50		Do. Bottom specimen.
5 8	6'08	3'42	Right Bank. Midddepth specimen.
7 8	8'04	0'02	Left Bank. Midddepth specimen.
0 6	9'00	4'58	Centre. Top specimen.
0 0	9'00		Do. Midddepth specimen.
17 0	9'00		Do. Bottom specimen.
0 0	8'04	5'78	Right Bank. Midddepth specimen.

is the average of the three samples trapped at top, midddepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
35	Ghod at Kalamb ..	28th July 1925 ..	Left Bank ..	..	11 6
		Do. ..	Centre ..	..	14 0
		Do. ..	Do. ..	..	14 0
		Do. ..	Do. ..	..	14 0
		Do. ..	Right Bank ..	..	11 6
36	Do. ..	6th Aug. 1925 ..	Left Bank ..	..	7 0
		Do. ..	Centre ..	..	10 0
		Do. ..	Do. ..	..	10 0
		Do. ..	Do. ..	..	10 0
		Do. ..	Right Bank ..	..	7 0
37	Do. ..	17th Aug. 1925 ..	Left Bank ..	..	6 0
		Do. ..	Centre ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Right Bank ..	..	5 9
38	Do. ..	20th Aug. 1925 ..	Left Bank ..	..	9 0
		Do. ..	Centre ..	..	12 0
		Do. ..	Do. ..	..	12 0
		Do. ..	Do. ..	..	12 0
		Do. ..	Right Bank ..	..	8 6
39	Do. ..	19th Sept. 1925 ..	Left Bank ..	..	3 6
		Do. ..	Centre ..	..	4 0
		Do. ..	Do. ..	..	4 0
		Do. ..	Do. ..	..	4 0
		Do. ..	Right Bank ..	..	3 0
40	Do. ..	20th Sept. 1925 ..	Left Bank ..	..	4 0
		Do. ..	Centre ..	..	5 0
		Do. ..	Do. ..	..	5 0
		Do. ..	Do. ..	..	5 0
		Do. ..	Right Bank ..	..	4 0
41	Do. ..	1st Oct. 1925 ..	Left Bank ..	..	4 0
		Do. ..	Centre ..	..	5 0
		Do. ..	Do. ..	..	5 0
		Do. ..	Do. ..	..	5 0
		Do. ..	Right Bank ..	..	4 0

Note.—The figure of weight of dry silt given in column 9 for the centre station

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
5 0	0'08	0'83	Left Bank. Middepth specimen.
0 0	7'50	1'16	Centre. Top specimen.
7 0	7'50		Do. Middepth specimen.
13 0	7'50		Do. Bottom specimen.
5 0	0'08	2'23	Right Bank. Middepth specimen.
3 0	5'00	0'68	Left Bank. Middepth specimen.
0 0	7'03	0'85	Centre. Top specimen.
5 0	7'03		Do. Middepth specimen.
9 0	7'03		Do. Bottom specimen.
8 0	5'00	0'37	Right Bank. Middepth specimen.
3 0	4'50	3'41	Left Bank. Middepth specimen.
0 0	5'00	0'08	Centre. Top specimen.
3 0	5'00		Do. Middepth specimen.
0 0	5'00		Do. Bottom specimen.
2 10½	4'50	1'12	Right Bank. Middepth specimen.
4 0	5'62	12'64	Left Bank. Middepth specimen.
0 0	7'03	1'02	Centre. Top specimen.
0 0	7'03		Do. Middepth specimen.
11 0	7'03		Do. Bottom specimen.
4 3	5'62	0'96	Right Bank. Middepth specimen.
1 0	3'62	21'40	Left Bank. Middepth specimen.
0 0	4'02	13'00	Centre. Top specimen.
2 0	4'02		Do. Middepth specimen.
3 0	4'02		Do. Bottom specimen.
1 0	3'62	12'22	Right Bank. Middepth specimen.
2 0	4'02	8'41	Left Bank. Middepth specimen.
0 0	4'50	16'28	Centre. Top specimen.
2 0	4'50		Do. Middepth specimen.
4 0	4'50		Do. Bottom specimen.
2 0	4'02	5'10	Right Bank. Middepth specimen.
2 0	4'02	2'23	Left Bank. Middepth specimen.
0 0	4'50	7'52	Centre. Top specimen.
2 0	4'50		Do. Middepth specimen.
4 0	4'50		Do. Bottom specimen.
2 0	4'02	4'95	Right Bank. Middepth specimen.

Is the average of the three samples trapped at top, middepth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
42	Mula at Rahuri ..	27th June 1925 ..	Left Bank ..	6'10	8 0
		Do. ..	Centre ..	6'10	6 8
		Do. ..	Do. ..	6'10	8 8
		Do. ..	Do. ..	6'10	6 8
		Do. ..	Right Bank ..	6'10	4 0
43	Do. ..	5th July 1925 ..	Left Bank ..	5'35	5 6
		Do. ..	Centre ..	5'35	5 2
		Do. ..	Do. ..	5'35	5 2
		Do. ..	Do. ..	5'35	5 2
		Do. ..	Right Bank ..	5'35	4 8
44	Do. ..	10th July 1925 ..	Left Bank ..	6'05	8 0
		Do. ..	Centre ..	6'05	7 2
		Do. ..	Do. ..	6'05	7 2
		Do. ..	Do. ..	6'05	7 2
		Do. ..	Right Bank ..	6'05	6 4
45	Do. ..	10th July 1925 ..	Left Bank ..	7'57	9 6
		Do. ..	Centre ..	7'57	8 6
		Do. ..	Do. ..	7'57	8 6
		Do. ..	Do. ..	7'57	8 0
		Do. ..	Right Bank ..	7'57	5 2
46	Do. ..	4th Aug. 1925 ..	Left Bank ..	5'30	6 4
		Do. ..	Centre ..	5'30	6 6
		Do. ..	Do. ..	5'30	6 6
		Do. ..	Do. ..	5'30	6 0
		Do. ..	Right Bank ..	5'30	5 8
47	Do. ..	8th August 1925 ..	Left Bank ..	7'19	9 2
		Do. ..	Centre ..	7'19	8 6
		Do. ..	Do. ..	7'19	8 6
		Do. ..	Do. ..	7'19	8 0
		Do. ..	Right Bank ..	7'19	6 0
48	Do. ..	22nd Aug. 1925 ..	Left Bank ..	6'77	7 2
		Do. ..	Centre ..	6'77	6 4
		Do. ..	Do. ..	6'77	6 4
		Do. ..	Do. ..	6'77	6 4
		Do. ..	Right Bank ..	6'77	5 2

Note.—The figure of weight of dry silt given in column 9 for the centre station

No. X.--contd.

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ccs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
4 0	5.26	14.87	Left Bank. Middepth specimen.
0 0	5.56	25.23	Centro. Top specimen.
3 4	5.56		Do. Middepth specimen.
5 8	5.56		Do. Bottom specimen.
2 0	5.00	24.04	Right Bank. Middepth specimen.
2 0	4.44	8.71	Left Bank. Middepth specimen.
0 6	4.00	1.65	Centro. Top specimen.
2 7	4.00		Do. Middepth specimen.
4 2	4.00		Do. Bottom specimen.
2 4	3.64	1.62	Right Bank. Middepth specimen.
4 0	4.65	15.68	Left Bank. Middepth specimen.
0 0	4.44	14.50	Centro. Top specimen.
3 7	4.44		Do. Middepth specimen.
6 2	4.44		Do. Bottom specimen.
3 2	4.17	18.51	Right Bank. Middepth specimen.
4 0	4.98	21.44	Left Bank. Middepth specimen.
0 0	4.65	15.36	Centro. Top specimen.
4 0	4.65		Do. Middepth specimen.
7 0	4.65		Do. Bottom specimen.
2 7	4.20	15.40	Right Bank. Middepth specimen.
3 2	4.00	6.66	Left Bank. Middepth specimen.
0 0	3.85	8.07	Centro. Top specimen.
3 0	3.85		Do. Middepth specimen.
5 0	3.55		Do. Bottom specimen.
2 10	3.64	7.60	Right Bank. Middepth specimen.
4 7	5.00	12.64	Left Bank. Middepth specimen.
0 6	4.44	13.66	Centro. Top specimen.
4 0	4.44		Do. Middepth specimen.
7 0	4.44		Do. Bottom specimen.
3 10	4.68	9.72	Right Bank. Middepth specimen.
3 7	4.65	33.50	Left Bank. Middepth specimen.
0 0	4.85	26.55	Centro. Top specimen.
3 2	4.35		Do. Middepth specimen.
5 4	4.85		Do. Bottom specimen.
2 7	3.95	23.48	Right Bank. Middepth specimen.

is the average of the three samples trapped at top, middle and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
				Ft.	Ft. in.
49	Mula at Rahuri ..	22nd Sept. 1925 ..	Left Bank ..	5' 77	6 2
		Do. ..	Centre ..	5' 77	5 8
		Do. ..	Do. ..	5' 77	5 8
		Do. ..	Do. ..	5' 77	5 8
		Do. ..	Right Bank ..	5' 77	4 0
50	Mula at Ambeghar-gaon.	11th July 1925 ..	Left Bank ..	..	11 0
		Do. ..	Centre ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Right Bank ..	..	6 0
51	Do. ..	13th July 1925 ..	Left Bank ..	..	12 0
		Do. ..	Centre ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Do. ..	..	9 0
		Do. ..	Right Bank ..	..	7 0
52	Do. ..	28th July 1925 ..	Left Bank ..	..	10 0
		Do. ..	Centre ..	..	8 0
		Do. ..	Do. ..	..	8 0
		Do. ..	Do. ..	..	8 0
		Do. ..	Right Bank ..	..	4 0
53	Do. ..	20th August 1925 ..	Left Bank ..	..	10 0
		Do. ..	Centre ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Do. ..	..	7 0
		Do. ..	Right Bank ..	..	4 0
54	Kukari at Pimpal-wadi.	11th July 1925 ..	Left Bank ..	..	8 0
		Do. ..	Centre ..	..	6 10
		Do. ..	Do. ..	..	6 10
		Do. ..	Do. ..	..	6 10
		Do. ..	Right Bank ..	..	6 0
55	Do. ..	13th July 1925 ..	Left Bank ..	..	15 0
		Do. ..	Centre ..	..	14 0
		Do. ..	Do. ..	..	14 0
		Do. ..	Do. ..	..	14 0
		Do. ..	Right Bank ..	..	10 0

Note.—The figure of weight of dry silt given in column 9 for the centre station

* Velocity observations

No. X—*contd.*

Depth from surface of silt specimen.	Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7	8	9	10
Ft. in.		Grains.	
3 1	4' 17	40' 62	Left Bank. Middepth specimen.
0 0	3' 92	25' 64	Centre. Top specimen.
2 10	3' 92		Do. Middepth specimen.
4 8	3' 92		Do. Bottom specimen.
2 0	3' 70	48' 33	Right Bank. Middepth specimen.
5 6	5' 71	0' 72	Left Bank. Middepth specimen.
0 0	5' 71	0' 86	Centre. Top specimen.
4 6	5' 71		Do. Middepth specimen.
8 0	5' 71		Do. Bottom specimen.
3 0	5' 71	2' 12	Right Bank. Middepth specimen.
6 0	5' 71	1' 88	Left Bank. Middepth specimen.
0 6	5' 71	1' 83	Centre. Top specimen.
4 6	5' 71		Do. Middepth specimen.
8 0	5' 71		Do. Bottom specimen.
3 0	5' 71	1' 82	Right Bank. Middepth specimen.
5 0	6' 25	1' 14	Left Bank. Middepth specimen.
0 6	6' 25	1' 15	Centre. Top specimen.
4 0	6' 25		Do. Middepth specimen.
7 0	6' 25		Do. Bottom specimen.
2 0	6' 25	7' 60	Right Bank. Middepth specimen.
5 0	6' 25	1' 42	Left Bank. Middepth specimen.
0 6	6' 25	1' 27	Centre. Top specimen.
3 0	6' 25		Do. Middepth specimen.
6 0	6' 25		Do. Bottom specimen.
2 0	6' 25	1' 40	Right Bank. Middepth specimen.
4 0	4' 30	3' 04	Left Bank. Middepth specimen.
0 6	4' 40	3' 62	Centre. Top specimen.
3 5	4' 40		Do. Middepth specimen.
5 10	4' 40		Do. Bottom specimen.
3 0	4' 00	4' 05	Right Bank. Middepth specimen.
7 6	.. *	9' 72	Left Bank. Middepth specimen.
0 6	.. *	9' 86	Centre. Top specimen.
7 0	.. *		Do. Middepth specimen.
13 0	.. *		Do. Bottom specimen.
5 0	.. *	11' 28	Right Bank. Middepth specimen.

could not be taken.

is the average of the three samples trapped at top, mid-depth and bottom.

STATEMENT

Serial No.	Name of the River and site.	Date.	Station of the section.	Gauge reading.	Total depth of water at station.
1	2	3	4	5	6
56	Kukari at Pimpalwadi	27th July 1925	Left Bank	Ft.	Ft. in.
	"	Do.	Centre	..	8 6
		Do.	Do.	..	8 6
		Do.	Do.	..	8 6
		Do.	Right Bank	..	8 6
57	Do.	29th July 1925	Left Bank	..	12 0
		Do.	Centre	..	12 4
		Do.	Do.	..	12 4
		Do.	Do.	..	12 4
		Do.	Right Bank	..	5 6
58	Do.	20th Aug. 1925	Left Bank	..	11 0
		Do.	Centre	..	11 0
		Do.	Do.	..	11 0
		Do.	Do.	..	11 0
		Do.	Right Bank	..	5 0
59	Do.	21st Sept. 1925	Left Bank	..	6 0
		Do.	Centre	..	6 0
		Do.	Do.	..	6 0
		Do.	Do.	..	6 0
		Do.	Right Bank	..	4 6

Note.—The figure of weight of dry silt given in column 9 for the centre station

No. X—*concl'd.*

Depth from surface of silt specimen.		Surface velocity of the river at each station. Feet per second.	Weight of dry silt in 10 ozs. of water.	Remarks.
7		8	9	10
Ft.	In.		Grains.	
4	3	5'00	1'80	Left Bank. Middepth specimen.
0	6	5'00	3'95	Centre. Top specimen.
4	3	5'00		Do. Middepth specimen.
7	6	5'00		Do. Bottom specimen.
1	9	4'00	3'67	Right Bank. Middepth specimen.
6	0	5'00	5'78	Left Bank. Middepth specimen.
0	6	5'70	9'78	Centre. Top specimen.
0	2	5'70		Do. Middepth specimen.
11	4	5'70		Do. Bottom specimen.
2	9	4'30	3'18	Right Bank. Middepth specimen.
5	0	5'00	3'60	Left Bank. Middepth specimen.
0	0	5'70	3'31	Centre. Top specimen.
5	6	5'70		Do. Middepth specimen.
10	0	5'70		Do. Bottom specimen.
2	6	4'30	2'68	Right Bank. Middepth specimen.
3	0	4'00	2'60	Left Bank. Middepth specimen.
0	0	4'40	2'80	Centre. Top specimen.
3	0	4'40		Do. Middepth specimen.
5	0	4'40		Do. Bottom specimen.
2	3	3'60	2'83	Right Bank. Middepth specimen.

is the average of the three samples trapped at top, middepth and bottom.

ADDENDA TO THE REPORT

(1) ABSTRACT SHOWING THE DISCHARGES OF THE GHATA-
PRABHA RIVER AT THE DHUPDAL WEIR
(GOKAK CANAL)

(2) STATEMENT SHOWING DISCHARGES OVER THE
WEIR AT VIR FROM THE YEAR 1906

FOR

NIRA RIGHT BANK CANAL

(Project No. 11, and item No. 50 of Statement V)

Abstract showing the discharges of the

Months.					1906-1907.	1907-1908.
April	..	..	..	..	2,011	2,210
May	..	..	..	..	2,142	2,282
June	..	..	..	..	50,488	53,331
July	..	..	..	..	410,838	432,356
August	..	..	..	..	240,214	1,051,401
September	..	..	..	..	158,408	100,013
October	..	..	..	..	30,332	50,671
November	..	..	..	..	12,860	8,453
December	..	..	..	..	3,588	3,801
January	..	..	..	..	2,793	2,081
February	..	..	..	..	2,342	2,358
March	..	..	..	..	2,081	2,262
April	..	..	..	..	...	....
Total of the daily rates of discharge in cubic feet per second ..					983,007	1,731,188
Total quantity discharged in million cubic feet—above line x 80,400					80,610	153,890
Add—Contents of the tank on 1st April following of every year up to 1921-22 and on 1st May of 1923 and of every subsequent year respectively					487	536
Total million cubic feet					81,100	154,426
Deduct—Contents of the tank on 31st March of every previous year up to 1921-22 and on 30th April 1922, and on 1st May of 1923 and of every subsequent year respectively ..					510	513
Grand Total, million cubic feet					80,587	153,913

Note.—Figures for the years 1888-89 to 1905-1906 also are available;

Ghataprabha river at the Dhupdal weir (Gokak Canal).

1908-1909.	1909-1910.	1910-1911.	1911-1912.	1912-1913.	1913-1914.	1914-1915.
2,171	1,820	2,153	1,070	2,300	2,071	854
2,008	070	812	1,852	4,803	1,825	1,000
33,422	08,380	120,100	158,501	07,304	172,004	83,813
1,042,718	881,100	311,302	283,423	1,197,584	441,057	1,233,003
617,676	137,352	582,549	367,883	533,610	300,585	877,800
76,842	50,945	108,511	110,217	07,226	62,751	283,032
10,230	30,000	111,524	24,453	39,025	28,210	47,021
5,291	3,001	11,752	5,489	3,870	3,913	17,580
3,101	2,012	9,777	4,370	3,800	2,808	9,435
2,824	2,523	2,450	2,802	2,053	2,003	2,030
2,213	2,342	1,905	2,104	2,304	1,193	2,075
2,150	2,157	1,070	2,023	2,081	090	1,861
....						
1,806,500	1,247,227	1,265,464	970,180	1,907,090	1,050,139	2,511,071
150,000	107,700	100,330	84,342	172,620	93,324	217,034
370	379	510	570	497	143	706
150,400	108,130	109,852	84,918	173,122	93,407	217,739
530	380	585	373	378	500	148
155,933	107,750	109,267	84,545	172,750	92,958	217,591

The total of the daily rates of discharge in cusecs for April 1922 was 2,090.

Abstract showing the discharges of the

Months.					1915-1916.	1916-1917.	1917-1918.
April	..	..	..	..	1,912	1,788	2,168
May	..	..	..	..	2,127	14,329	2,319
June	..	..	..	..	151,226	251,343	190,600
July	..	..	..	..	491,147	197,246	337,326
August	..	..	..	..	381,020	662,427	261,804
September	..	..	..	..	154,507	156,480	332,026
October	..	..	..	..	98,219	57,306	170,860
November	..	..	..	..	17,017	180,203	43,473
December	..	..	..	..	5,800	16,081	11,244
January	..	..	..	..	3,521	8,014	7,426
February	..	..	..	..	2,270	8,708	2,360
March	..	..	..	..	1,861	2,231	2,116
April	..	..	..	..	....	....	....
Total of the daily rates of discharge in cubic feet per second ..					1,310,716	1,550,704	1,378,202
Total quantity discharged in million cubic feet—above line x 86,400					113,240	133,081	119,084
Add—Contents of the tank on 1st April following of every year up to 1921-22 and on 1st May of 1923 and of every subsequent year respectively					724	1,001	907
Total million cubic feet					113,970	134,082	120,051
Deduct—Contents of the tank on 31st March of every previous year up to 1921-22, on 30th April 1922, and on 1st May of 1923 and of every subsequent year respectively					718	736	1,068
Grand Total, million cubic feet					113,252	134,246	119,043

Ghataprabha river at the Dhupdal weir (Gokak Canal)—concl'd.

1918-1919.	1919-1920.	1920-1921.	1921-1922.	1922-1923.	1923-24.	1924-1925.	1925-1926.
2,250	668	1,057	882	....	....	....	....
4,216	1,178	790	836	1,010	2,357	724	1,511
56,887	117,858	100,052	110,230	106,533	15,058	61,404	195,449
154,241	370,258	629,525	424,680	607,712	1,152,000	705,434	780,838
384,056	448,107	218,350	401,448	331,476	662,601	387,049	324,084
73,802	112,000	77,217	158,247	120,452	32,170	100,030	76,332
17,175	62,033	30,873	37,550	25,280	20,505	35,853	41,170
9,813	13,850	5,080	66,833	24,688	3,077	8,797	6,385
3,620	7,038	3,618	4,170	6,267	2,705	4,543	3,490
2,875	3,222	2,870	3,343	3,222	2,050	2,800	3,100
2,058	2,226	2,028	2,558	3,396	1,228	2,103	2,203
1,502	1,003	1,417	2,148	1,972	844	1,779	1,958
....	....	....	....	8,500	836	725	1,405
712,044	1,147,085	1,074,302	1,281,952	1,310,110	1,946,808	1,470,390	1,437,329
61,572	90,108	92,827	110,700	113,103	168,204	127,042	124,185
208	541	266	503	008	239	2	216
61,870	90,040	93,092	111,203	113,801	168,443	127,044	124,401
974	304	555	201	302	093	238	2
60,800	90,345	92,537	111,002	113,580	167,745	126,806	124,390

Statement showing discharges over the

Month.	Total discharge			
	1906.	1907.	1908.	1909.
	C. ft.	C. ft.	C. ft.	C. ft.
June	3,692,347,200	1,040,913,000	....	8,048,410,200
July "	25,021,617,000	32,701,281,000	40,201,708,800	40,125,478,400
August	14,500,473,000	54,453,850,200	40,297,478,400	10,712,390,400
September	7,200,102,000	8,502,785,000	5,040,043,000	4,823,452,800
October .. ..	....	075,734,400	....	398,390,400
November .. ..	....	....	....	....
Total	51,134,030,400	93,040,574,400	91,546,835,200	70,112,131,200

Month.	Total discharge			
	1916.	1917.	1918.	1919.
	C. ft.	C. ft.	C. ft.	C. ft.
June .. ..	....	4,027,454,400	754,358,400	3,833,568,000
July	7,135,344,000	21,771,703,200	2,891,080,800	20,013,235,200
August	30,094,150,800	24,784,700,400	17,475,523,200	42,315,006,000
September	8,892,840,000	10,840,330,200	2,883,772,800	11,905,876,800
October	2,552,212,800	11,707,761,000	1,125,010,200	3,855,427,200
November	1,023,028,800	1,144,540,800	....	....
Total	50,298,192,000	80,885,049,600	25,131,254,400	91,823,803,200

weir at Vir from the year 1906.

of month.

1910.	1911.	1912.	1913.	1914.	1915.
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
5,826,643,200	4,664,520,000	205,723,200	21,020,109,600	509,025,600	21,750,163,200
10,680,321,600	8,430,425,600	40,767,883,200	20,902,780,800	55,081,300,000	23,012,337,600
36,453,369,600	26,418,552,000	24,712,560,000	13,736,006,400	29,003,081,600	19,200,844,800
6,050,116,800	5,274,288,000	2,606,774,400	3,642,537,600	19,411,764,000	10,426,068,000
10,373,018,400	....	580,088,400	948,369,600	....	3,036,916,800
....					
78,384,369,000	80,817,785,600	68,032,979,200	60,250,404,000	114,086,711,200	77,427,230,400

of month—contd.

1920.	1921.	1922.	1923.	1924.	1925.
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
4,558,582,400	....	7,211,225,600	....	....	4,450,464,000
45,481,910,400	21,727,656,000	46,222,320,000	20,004,590,400	19,363,904,000	20,501,539,200
16,148,116,800	30,260,174,400	24,153,263,600	88,425,579,200	26,903,102,000	12,736,712,400
3,490,689,600	8,061,379,200	11,685,818,400	3,743,464,000	6,143,861,000	2,120,644,800
150,296,400	565,069,600	1,373,062,800	12,312,000	2,476,157,000	274,665,600
....					
460,824,565,600	60,614,870,400	90,645,700,000	68,700,945,600	54,877,024,000	40,174,056,000

*Note by the Chief Engineer for Irrigation reviewing the Annual Report of
supplies of water available for irrigation works and of the
discharge from catchment areas in the Bombay
Presidency for the year 1925*

The discharges recorded this year at Mithankot below the junction of the Chenab with the Indus are higher in the months of May, October, March and April than those at Sukkur. The discharges at Dera Ghazi-khan and Panjnad (recorded by the Punjab Government) have been given below statement I as was done in the case of the report for the years 1923 and 1924.

2. The report deals with the results of observations made from 1st May to 30th April following. The gauge curves at Bulkur and Kotri pertain to the year ending 31st December.

3. Statements II, III and IV remain unchanged.

4. Statement No. V has been prepared on the lines of one for the year 1923. The discharges from the rivers in the Deccan and Gujarat were generally lower than those of the last year due to less rainfall. "

5. Of the ghat-fed tanks, lakes Beale, Arthur Hill, and Whiting showed greater run off than in the past year while Lake Fife showed less.

6. One addition has been made to statement No. VII. Survey was made during the year under report for Koregaon Tank for ascertaining the silt deposited, *vide* statement No. VIII.

7. During the year under report observations for the distribution of total losses due to (1) evaporation, (2) leakage and (3) percolation and absorption were made for 7 tanks only as was done in the last year.

R. T. HARRISON,
Chief Engineer for Irrigation.

13th November 1927.



00133257

IRRIGATION MAP OF THE BOMBAY PRESIDENCY EXCLUDING SIND FOR 1925

Scale 20 Miles to an Inch

Scale 20 Miles to an Inch

AHMEDABAD DIVISION

Works in Operation

- | | |
|------------------------|-------------------------|
| 1. Mahadadi Canal | 10. Chaudhri Canal |
| 2. Kadi Canal | 11. Kadi Canal |
| 3. Kadi Indus Drainage | 12. Kadi Indus Drainage |
| 4. Kadi Indus Drainage | 13. Kadi Indus Drainage |
| 5. Kadi Indus Drainage | 14. Kadi Indus Drainage |
| 6. Kadi Indus Drainage | 15. Kadi Indus Drainage |
| 7. Kadi Indus Drainage | 16. Kadi Indus Drainage |
| 8. Kadi Indus Drainage | 17. Kadi Indus Drainage |
| 9. Kadi Indus Drainage | 18. Kadi Indus Drainage |

KADIA & PANCHI

Works in Operation

- | | |
|---------------|----------------|
| 1. Kadi Canal | 10. Kadi Canal |
| 2. Kadi Canal | 11. Kadi Canal |
| 3. Kadi Canal | 12. Kadi Canal |
| 4. Kadi Canal | 13. Kadi Canal |
| 5. Kadi Canal | 14. Kadi Canal |
| 6. Kadi Canal | 15. Kadi Canal |
| 7. Kadi Canal | 16. Kadi Canal |
| 8. Kadi Canal | 17. Kadi Canal |
| 9. Kadi Canal | 18. Kadi Canal |

BOMBAY

Works in Operation

- | | |
|-------------------|--------------------|
| 1. River Mahadadi | 10. River Mahadadi |
| 2. River Mahadadi | 11. River Mahadadi |
| 3. River Mahadadi | 12. River Mahadadi |
| 4. River Mahadadi | 13. River Mahadadi |
| 5. River Mahadadi | 14. River Mahadadi |
| 6. River Mahadadi | 15. River Mahadadi |
| 7. River Mahadadi | 16. River Mahadadi |
| 8. River Mahadadi | 17. River Mahadadi |
| 9. River Mahadadi | 18. River Mahadadi |

MURAT DIVISION

Works in Operation

- | | |
|----------------|-----------------|
| 1. Murat Canal | 10. Murat Canal |
| 2. Murat Canal | 11. Murat Canal |
| 3. Murat Canal | 12. Murat Canal |
| 4. Murat Canal | 13. Murat Canal |
| 5. Murat Canal | 14. Murat Canal |
| 6. Murat Canal | 15. Murat Canal |
| 7. Murat Canal | 16. Murat Canal |
| 8. Murat Canal | 17. Murat Canal |
| 9. Murat Canal | 18. Murat Canal |

WEST KHANDISH DIVISION

Works in Operation

- | | |
|------------------------|-------------------------|
| 1. West Khandish Canal | 10. West Khandish Canal |
| 2. West Khandish Canal | 11. West Khandish Canal |
| 3. West Khandish Canal | 12. West Khandish Canal |
| 4. West Khandish Canal | 13. West Khandish Canal |
| 5. West Khandish Canal | 14. West Khandish Canal |
| 6. West Khandish Canal | 15. West Khandish Canal |
| 7. West Khandish Canal | 16. West Khandish Canal |
| 8. West Khandish Canal | 17. West Khandish Canal |
| 9. West Khandish Canal | 18. West Khandish Canal |

EAST KHANDISH DIVISION

Works in Operation

- | | |
|------------------------|-------------------------|
| 1. East Khandish Canal | 10. East Khandish Canal |
| 2. East Khandish Canal | 11. East Khandish Canal |
| 3. East Khandish Canal | 12. East Khandish Canal |
| 4. East Khandish Canal | 13. East Khandish Canal |
| 5. East Khandish Canal | 14. East Khandish Canal |
| 6. East Khandish Canal | 15. East Khandish Canal |
| 7. East Khandish Canal | 16. East Khandish Canal |
| 8. East Khandish Canal | 17. East Khandish Canal |
| 9. East Khandish Canal | 18. East Khandish Canal |

NARIC IRRIGATION DIVISION

Works in Operation

- | | |
|----------------|-----------------|
| 1. Naric Canal | 10. Naric Canal |
| 2. Naric Canal | 11. Naric Canal |
| 3. Naric Canal | 12. Naric Canal |
| 4. Naric Canal | 13. Naric Canal |
| 5. Naric Canal | 14. Naric Canal |
| 6. Naric Canal | 15. Naric Canal |
| 7. Naric Canal | 16. Naric Canal |
| 8. Naric Canal | 17. Naric Canal |
| 9. Naric Canal | 18. Naric Canal |

